1307

Drinking Water Surveillance Program

NORTH BAY WATER SUPPLY SYSTEM

Annual Report 1989





NORTH BAY WATER SUPPLY SYSTEM

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1989

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February 1991



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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

NORTH BAY WATER SUPPLY SYSTEM 1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The North Bay Water Supply System is a pumping station that adjusts alkalinity, disinfects and fluoridates water from Trout Lake before distribution. This plant serves a population of approximately 50,000 and has a design capacity of 30×1000 m³/day.

Water samples from two distribution sites were taken on a monthly basis and analyzed for the presence of approximately 180 parameters. The raw and treated water at the pumping station was sampled beginning in August. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organics (Chloroaromatics, Pesticides and PCB, Phenolics, Polyaromatic Hydrocarbons and Volatiles). Phenolics and Polyaromatic Hydrocarbons were only analyzed in the raw and treated water.

A summary of results is shown in Table A.

Inorganic and Physical parameters (Laboratory Chemistry, Field Chemistry and Metals) were below any applicable health related ODWOs.

Samples were analyzed monthly for the presence of approximately 110 Organics. Levels did not exceed health related guidelines.

During 1989, the limited DWSP sampling results indicated that the treated water and the distributed water from the North Bay Water Treatment Plant was acceptable in quality.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY UTP

SUPMARY TABLE BY SCAN

		RAW		TR	TREATED		S	SITE 1		SITE 2	2		SII	SITE 3	
SCAN	TESTS	TESTS POSITIVE XPOSITIVE TESTS POSITIVE XPOSITIVE	SITIVE	TESTS	POSITIVE	(POSITIVE	TESTS	TESTS POSITIVE XPOSITIVE		ESTS PO	TESTS POSITIVE XPOSITIVE	,	ESTS P	TESTS POSITIVE XPOSITIVE	20S1T1VE
															; ; ; ;
BACTERIOLOGICAL	\$	6	\$	₹	2	13	8	18	8	٥	m	33	77	m	7.
CHEMISTRY (FLO)	£	\$	100	30	30	100	115	112	26	30	30	<u>5</u>	29	8	8
CHEMISTRY (LAB)	100	22	۶	8	20	8	385	3%	&	105	8	16	245	218	8
METALS	120	41	×	120	53	35	516	242	3	25	જ	3	329	132	07
CHL ORGAROMATICS	99	0	0	2	0	0	154	0	0	75	0	0	8	0	0
РАН	20	0	0	2	0	0	•	•	•				•	•	•
PESTICIDES & PCB	149	0	0	5	0	0	309	0	0	102	0	0	₹	0	0
PHENOL I CS	₩.	m	3	50	m	8	•	•	•		•		•	•	٠
SPECIFIC PESTICIDES	4	0	0	~	0	0	=	0	0	m	0	0	^	0	0
VOLATILES	145	0	0	145	16	=	319	33	10	87	0,	Ξ	203	21	10
	069	147		739	Ė		1839	٤		519	202		1156	077	

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED.

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE A '.' INDICATES THAT NO SAMPLE WAS TAKEN

TOTAL

DRINKING WATER SURVEILLANCE PROGRAM

NORTH BAY WATER SUPPLY 1989 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The DWSP was initiated on the North Bay Water Supply in March of 1987. Annual Reports were published for 1987 and 1988 (ISSN 0840-5212).

This report contains information and results for 1989.

PLANT DESCRIPTION

The North Bay Water Supply System is a pumping station that adjusts for alkalinity, disinfects and fluoridates water from Trout Lake before distribution. The pumping station has a design capacity of 30×1000 m/day and flows on the day of sampling ranging from 26.4 $\times 1000$ m³/day to 56.8 $\times 1000$ m³/day. The supply serves approximately 50,000 pecple.

The plant location is shown in Figure 1. General plant information is presented in Table 2.

SAMPLE LOCATIONS

Samples were obtained from five DWSP approved locations;

- i) Plant Raw -The water originated from the sluice gate chamber prior to chlorination. Water was sampled through a stainless steel pump and stainless steel sample lines.
- ii) Plant Treated The water originated from the discharge off
 the Venturi chamber after addition of all treatment
 chemicals. Water was sampled through stainless
 steel sample lines.
- iii) Distribution System Site 1 This house is approximately 1.2 kilometres from the plant. Water was sampled through a copper sample line at the basement laundry tap.
- ii) Distribution System Site 2 This house is approximately 2.0 kilometres from the plant. Water was sampled through a copper sample line at the kitchen sink tap. Sampling at this site was discontinued in March.
- iii) Distribution System Site 3 This house is approximately
 6 kilometres from the plant. Water was sampled
 through a copper sample line at the kitchen sink.

Sampling at this site was started in May.

SAMPLING AND ANALYSIS

Sample lines in the plant were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

At all distribution system locations, two types of samples were obtained: a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples are used to make an assessment of the amount by which the levels of inorganic compounds and metals may be changed on standing due to leaching from (or deposition on) the plumbing system. The only analyses carried out on the standing samples therefore, are General Chemistry and Metals. The free flow sample represented fresh water from the distribution main that had been flowing at the sample tap for five minutes before the sample was taken.

Attempts were made to capture the same block of water at each sampling point by taking the retention time into consideration. The retention time was calculated by dividing the volume of water between the two sampling points by the sample day flow. For example, if it was determined that the retention time within the

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM SITE LOCATION MAP NORTH BAY WATER TREATMENT PLANT



FIGURE 2 NORTH BAY WTP

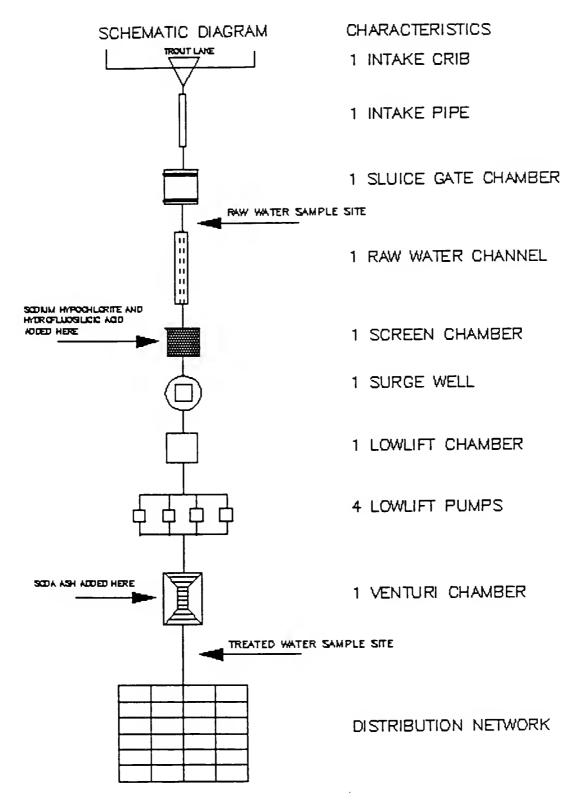


TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM IN-PLANT MONITORING NORTH BAY WSS 1989

PARAMETER		LOCATION	FREQUENCY
Chlorine Residual -	free	Treated Water	continuous
		Treated Water	every 8 hrs
	total	Treated Water	every 8 hrs
Fluoride		Treated Water	every 8 hrs
рН		Valve Chamber	continuous
Temperature		Prior to Screens	continuous
Turbidity		Prior to Screens	continuous

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT GENERAL INFORMATION

NORTH BAY WATER SUPPLY SYSTEM

LOCATION:

248 LAKESIDE DRIVE

NORTH BAY, ONTARIO

P1B 3E3

(705-474-3417)

SOURCE:

RAW WATER SOURCE - TROUT LAKE

DESIGN CAPACITY:

30 (1000 M³/DAY)

OPERATION:

MUNICIPALITY

PLANT SUPERINTENDENT: B. WINTON

MINISTRY REGION:

NORTHEAST

DISTRICT OFFICER:

J.R. HARMAR

MUNICIPALITY SERVED

POPULATION

50,000

NORTH BAY

plant was five hours then there would be a five hour interval between the raw and treated sampling. Similarly, if it was estimated that it took approximately one day for the water to travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

Stringent DWSP sampling protocols were followed to ensure that all samples were taken in a uniform manner.

Plant operating personnel perform analyses on parameters for process parameters (Table 1).

The North Bay Water Supply distribution system was sampled for the presence of approximately 180 parameters on a monthly basis in 1989. The raw and treated water at the pumping station was sampled beginning in August. Phenolics and Polynuclear Aromatic Hydrocarbons were only analyzed in the raw and treated water. Samples were not taken for Specific Pesticide and Chlorophenol analysis. As of August, the analysis of triazine pesticides was dropped in the distribution system. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field Chemistry measurements were recorded on the day of sampling

and were entered on the DWSP data base as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters. These are currently under review. When an ODWO is not available, guidelines/limits from other agencies are consulted. The Parameters Listing System (PALIS), recently published (ISBN 0-7729-4461-X) by the MOE, catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

Plant operational personnel address occurrences of taste and odour or biological water quality parameters. The DWSP does not assess these aspects of the water supply.

As stated under Results, traces do not indicate quantifiable values as defined by established MOE Laboratory analytical reporting protocols. While they can be useful in trend analysis or confirmation of the presence of a specific contaminant that is repeatedly detected at these levels, the occasional finding of a trace level of a contaminant is not considered to be significant.

DISCUSSION OF GUIDELINES AND LIMITS THEREFORE, IS ONLY CONDUCTED ON POSITIVE RESULTS.

Bacteriology

Positive results for the Bacteriology scan were present two times in the treated water, eighteen times in the Site 1 water, nine times in the Site 2 water and three times in the Site 3 water. The positive parameters were Standard Plate Count and Total coliform Background.

Standard Plate Count is a test used to supplement routine analysis for Coliform bacteria. The limit for Standard Plate Count (at 35°C after 48 hours) from the ODWOs is 500 organisms/mL based on a geometric mean of 5 or more samples. High Standard Plate Counts were present in the July Site 1 water. While no indicators of unsafe water were detected at this time, the high Standard Plate Count may be indicative of a deterioration in conditions in the distribution system. A total Chlorine Residual of at least 0.05 mg/L was detected in the samples.

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological quality. The routine monitoring program usually requires the taking of multiple samples in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single

samples. Further, bacteriological limits were developed in acknowledgement that the presence of coliforms may be detected due to their non-uniform distribution throughout the distribution system and the fact that their enumeration is subject to considerable variation. Routine bacteriological monitoring, as outlined in the ODWOs, is carried out by the operating authority.

Inorganic and Physical Parameters

Laboratory and Field Chemistry

The results for Laboratory Chemistry and Field Chemistry scans were below applicable health related ODWOs.

Colour values exceeded the aesthetic ODWO of 5 True Colour Units (TCU) in seventeen treated and distribution system free flow waters. Colour in drinking water may be due to the presence of natural or synthetic organic substances as well as certain metallic ions.

The Langelier Index is used extensively in estimating the corrosion potential of water. An increasingly negative index indicates the increasing possibility of corrosion. It is considered sound engineering practice to maintain a slightly positive Langelier Index. Although Table 3 indicates that Sodium Carbonate is added for alkalinity adjustment, the Langelier Index for North Bay is consistently negative.

As part of the treatment plant process, Hydrofluosilicic acid is added to the treated water (Table 3). Where fluoridation is practised, the Fluoride concentration recommended in the ODWO is 1.2 mg/L, plus or minus 0.2 mg/L. This level was generally maintained as can be observed in the Fluoride values in Table 5.

It is desirable that the Temperature of drinking water be less than 15°C. The palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of the delivered water may increase in the distribution system due to the warming effect of the soil in late summer and fall and/or as a result of higher temperatures in the source water. The desired ODWO was exceeded once in the treated water.

Metals

Elevated levels of Copper, Nickel, Lead and Zinc were detected in the standing samples, as compared to the free flow distribution samples, indicating that small quantities of these metals were leached from the household plumbing as the water stood overnight. The Langelier Index indicates that this might be expected.

The Lead levels in the standing sample from Site 1 were high in January, April and September. The Nickel value was also elevated

in January and April. Samples from this location always showed higher levels for these metals in the standing samples than those from Site 2 or Site 3 (indicating the possibility of a lead service connection). The ODWO for lead applies to the free flow sample and not the standing water sample.

At many locations sampled as part of the DWSP, elevated mercury levels have been a result of contamination in the preservative. This problem has since been corrected by using single-use preservatives. The increased mercury levels at Site 1 are a result of this contamination.

Organic

Chloroaromatics

The results of the Chloroaromatics group showed that no Chloroaromatics were detected.

Pesticides and PCB (Polychlorinated Biphenyl)

The results of the Pesticides and PCB scan showed that no PCBs were detected and that two pesticides were detected:

Alpha BHC

Atrazine

There are several isomers of BHC (Benzene Hexachloride). Gamma BHC is the active ingredient of the pesticide Lindane, while alpha BHC

is the isomer most predominantly found in surface waters of the Great Lakes basin as indicated in results from other water supplies on DWSP.

Alpha BHC was detected at trace levels; three times in the raw water, once in the treated water, eight times in the Site 1 water, twice in the Site 2 water and twice in the Site 3 water.

Atrazine was detected at a trace level in one Site 1 water.

Phenolics

The maximum desirable concentration of phenolic substances in drinking water is 2.0 μ g/L. This limit has been set primarily to prevent the occurrence of undesirable tastes and odours, particularly in chlorinated water. Phenolics were detected in the raw water, ranging from 1.0 to 4.0 μ g/L, and in the treated water, ranging from 1.0 to 5.0 μ g/L. Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes.

Volatiles

Within the Volatile scan, eight parameters, other than Trihalomethanes (THMs), were detected:

Benzene

Toluene

Ethylbenzene

Meta-Xylene

Ortho-Xylene

Styrene

Carbon Tetrachloride

Tetrachloroethylene

Benzene was detected in the August treated water sample at 0.60 μ g/L. The Interim Maximum Acceptable Concentration listed in the Canadian Drinking Water Guidelines (Health and Welfare Canada) for benzene in drinking water is 5.0 μ g/L.

The detection of toluene at low, trace levels is a laboratory artifact derived from the analytical methodology.

Ethylbenzene was detected at trace levels; once in the treated water, twice in the Site 1 water, twice in the Site 2 water and once in the Site 3 water.

Meta-Xylene was detected at trace levels; once in the Site 1 water and once in the Site 3 water.

Ortho-Xylene was detected at a trace level; once in the Site 1 water.

The detected trace levels of Styrene are also considered to be laboratory artifacts resulting from the polystyrene shipping

containers. The sporadic background levels from this source are in the order of 0.05 μ g/L. The value of 0.65 μ g/L reported for the March Site 2 sample was considered by laboratory staff to be unreliable due to suspected contamination as per the remark 'UCS'.

The volatiles listed above are typically found on an occasional basis at other water supplies included on the DWSP, usually at trace levels.

Carbon Tetrachloride was detected at a trace level, in one Site 3 water sample.

Tetrachloroethylene was detected at trace levels, once in the treated water, once in the Site 1 water and twice in the Site 3 water.

THMs are acknowledged to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane with Bromoform occurring occasionally. Results are reported for the individual compounds as well as for total THMs.

Chloroform, Chlorodibromomethane, Dichlorobromomethane and Total THMs were always detected in the distributed water. Bromoform was not detected. Total THM occurrences, ranging from 42.8 μ g/L to 284

 μ g/L, were below the ODWO of 350 μ g/L.

CONCLUSIONS

Effective treatment should be provided to ensure safety and consistency in the quality of all waters. The current Ministry policy (\$15-14-01) requires that all surface waters shall use treatment processes consisting of coagulation-flocculation, filtration (or equivalent) and disinfection. Surface supplies without such treatment are subject to contamination with biological organisms, including algae, protozoa and other organisms that can cause taste and odour and other aesthetic problems in the distributed water and potential health problems eg. giardia and cryptosporidia.

While the parameters measured on DWSP may not have exceeded drinking water guidelines, the water produced cannot be considered to be satisfactory until a treatment process appropriate to the source of the supply is applied (see ODWOs, revised 1983, p7).

Marked increases in copper and lead levels in the standing samples and the consistently negative Langelier Index indicate that the addition of sodium carbonate, at the dosages listed, are not adequate for corrosion control.

During 1989, results from the treated and distributed water from the North Bay Water Supply System indicate that the water quality was acceptable for those parameters measured.

RECOMMENDATIONS

1) Corrosion control processes should be reviewed.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY WTP SAMPLE DAY CONDITIONS FOR 1989

	SAMPLE D	SAMPLE DAY CONDITIONS	SH	TREATHEN	TREATMENT CHEMICAL DOSAGES (MG/L)
			PRE-CHLORINATION	FLUCRIDATION	ALKALINITY ADJUST
DATE	DELAY* TIME(HRS)	FLOW (1000H3)	CHLORINE	MYDROFLUOSILICIC ACID	SCOIUM CARBONATE
JAN 24	.2	26.7	1.95	1.27	6.37
FEB 28			1.74	1.18	7.57
MAR 28	?	27.9	1.90	1.20	9.15
APR 25	۶.	26.2	2.12	1.09	99.99
MAY 18	2.	33.4	2.00	1.30	7.25
JUL 18	?	56.8	2.16	1.43	8.50
AUG 29	٦.	30.8	2.01	1.20	77.6
SEP 21	٠.	30.0	2.10	1.20	9.38
OCT 24	.2	27.6	5.09	1.13	5.39
Nov 28	.2	27.6	1.52	1.20	5.13
0EC 19	.2	29.7	1.90	1.15	7.00

^{*} THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

			740		•	TREATED			SITE 1		S	S11E 2		•	SITE 3		
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE	TRACE	:	TOTAL POSITIVE TRACE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE	:	TOTAL POSITIVE TRACE	TRACE	:
ACTEDIOLOGICAL	FECAL COLLEGEM MF	5	-	0			•	•	•	•	•		•	•	•		
#ACTENTOLOGICAL	CTANDED DIATE CAT ME	, ,	•	•	_		0		٥	0	M	~		7	-		
	TOTAL COLLEGE ME		. •		_		0 0	5	2	0	m	0	0	7	0		
	T COLIFORM BCKGRO MF	· v	· w	0			0		7	•	m	-		7	2	•	
STOTAL SCAN BACTERIOLOGICAL	J. OGICAL	5	10	0	-	<u>⊼</u>	0 ~	30	81		٥	,		21			_
*TOTAL GROUP BACTERIOLOGICAL	IOLOGICAL	15	10	0	-		2 0		8	0	٥		0 M	2	m	0	_
	•									0	9		0 5	12	-		; _
CHEMISTRY (FLD)	TLU CALUATINE (COMB)	•	•	•							•		0 9	14	71		0
	TLU LALUKINE FREE	•	•	•							9		9				0
	FLO CHLOKINE (101AL)	٠ ٠		٠ .				2 2	22		•			14	14		0
	FIN TEMPERATURE	, 10	. 10	0			2			0	•		0 9				
	FLD TURBIOITY	· v	2	0		25	2	9	•		•			•			
*TOTAL SCAN CHEMISTRY (FLD)	RY (FLD)	15	51	0		30 3	30 0	115	112	0 2	30	m	30 0	19		8	0
																	:
CUEMICTOY (1 AB)	AIKALINITY	~	2	0	_	2	2				9		9				0
בשבשופועה לבעם	CALCTUM	2	2	0	_	2	2	22	22					•	-		0
	CYANIDE	•	0	0	_	2							0				_
	CHICOLOF		2	0	_	2	5										0
		•	2	0	_	2		0 23		22 0	9		0 9	14		14	0
	CONDUCTIVITY	ν.	5	0	_	2	2	25					9				0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

		SITE														
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TRE/ TOTAL PO	TREATED TOTAL POSITIVE TRACE	RACE	SITE TOTAL POSI	SITE 1 TOTAL POSITIVE TRACE	TRACE	SI TOTAL P	SITE 2 TOTAL POSITIVE TRACE		SITE 3 TOTAL POSITIVE TRACE	VE 18	CE
CHEMISTRY (LAB)	FLUORIDE	•	\$	0	~	5	0	22	22	0	•	•	0	14	14	0
	NARONESS	S	~	0	S	2	0	22	22	0	•	•	0	71	74	0
	IONCAL	\$	~	0	S	5	0	22	22	0	•	•	0	14	7	0
	LANGELIERS INDEX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAGNESIUM	\$	~	0	5	5	0	22	22	0	9	9	0	14	14	0
	NO 10M	8	2	0	5	5	0	22	22	0	9	9	0	14	14	0
	AMMONIUM TOTAL	\$	-	m	2	0	2	22	٥	•	•	m	~	14	m	9
	MITRITE	8	2	m	₽.	2	7	22	7	15	9	~	m	14	2	٥
	TOTAL MITRATES	S	2	0	5	5	0	22	22	0	9	9	0	14	14	0
	HITROGEN TOT KJELD	S	~	0	S	5	0	22	22	0	9	•	0	14	14	0
	H.d.	S	5	0	5	5	0	22	25	0	9	9	0	14	14	0
	PHOSPHORUS FIL REACT	5	0	0	4	2	-	٠	٠	•	•	•	•			
	PHOSPHORUS TOTAL	2	0	•	4	2	7	•	•	•	•	•	•			
	SULPHATE	5	\$	0	s	S	0	22	22	0	9	•	0	14	14	0
	TURBIDITY	•	8	0	'n	•	0	22	22	0	9	•	0	14	14	0
*TOTAL SCAN CHEMISTRY (LAB)	(LAB)	100	82	=	86	18	^	385	346	21	105	8	S	542	218	15
METALS	SILVER	•	0	-	•	0	0	22	-	=	9	0	m	14	0	2
	ALUMINUM	\$	2	0	S	5	0	22	22	0	9	9	0	14	14	0
	ARSENIC	\$	0	4	5	0	5	22	-	21	9	0	9	14	0	7
	BARIUM	2	2	0	5	5	0	22	25	0	9	9	0	14	14	0
	BORON	5	0	~	•	0	5	22	m	6	9	0	9	14	0	71
	BERYLLIUM	5	0	-	٠	0	7	22	0	2	9	0	7	71	0	m

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

SUMMARY TABLE OF RESULTS (1989)

		SITE			4344	g F		1 11 1		15	6 116 2		5	SITE 3	
SCAN	PARAMETER	TOTAL POSI		TIVE TRACE	TOTAL PC	TOTAL POSITIVE TRACE		TOTAL POSITIVE TRACE	E TRACE		TOTAL POSITIVE TRACE	IRACE	TOTAL P	TOTAL POSITIVE TRACE	RACE
3 14137	CADATIBA	5	0	-	5	0	-	22	9	•	0	m	14	0	7
	COBALT		0	· IO	1	-	4	22	0 22	9	0	•	7	0	14
	THUMUN IN	. 10	0	P)	'	0	m			9	-	7	14	7	60
	COPPER	· •	4	_	5	4	-		22 0	9	•0	0	71	7	0
٠	IBON	· •	0	, RV	5	0	5			•	9	0	1,	7	Ξ
, a . 8	MERCURY	· 10	_	~	\$	0	m			m	m	0	7	7	7
•	MANGANESE	1 0	•	0	2	~	0		20 02	•	•	0	7	13	-
	MON YRDENCE	1	0	2	.	0	4	22	0 20	•		4	7	-	₽
	MICKEL	· •	0	50	5	0	5			•	M	m	7	4	유
	FAD		2	7	5	~	~		22 0	•	•	0	7	7	0
	ANTIMONA		•	-	5	5	0			•	•	0	7	12	7
	NO. I THE LEVEL OF THE PERSON		0	_	<u>د</u>	0	0			•	0	•	7	0	7
	STECHES	. 10		0	· •	5	0			•	•	0	7	7	0
	TITANII	· 10	. 10	0	· •	5	0				7	4	14	12	7
	7141 TIME			~	· •	-	-		2 8	9	0	0	14	0	2
	IDANIIM			. ~		0	0			9	0	m	14	0	7
	MANADINA	· •	0	10	10	0	5	22	0 14	•	0	0	7	0	13
	ZINC	'n	2	0	•	v	0	22	0 22	•	•	0	14	14	0
*TOTAL SCAN METALS		120	17	5	120	43	97	516 24	242 180	141	63	87	329	132	127
*TOTAL GROUP INORGANIC & PHYSICAL	NIC & PHYSICAL	235	134	62	248	154	53				189	53	2	416	142
							•	11		m	0	0	7	0	0
CHLOROAROMATICS	HEXACHLOROBUTADIENE	s ~			י ר	· c	• •	: :			0	0	~	0	0
	125 TRICHLOROBENZENE	3	•		•	>	•	:							

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

SUMMARY TABLE OF RESULTS (1989)

		SITE														
			RAU		-	TREATED		<i>3</i> ,	SITE 1		SITE 2	E 2		SiT	SITE 3	
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	SITIVE	TRACE	TOTAL POSITIVE TRACE	SITIVE	TRACE
CHLOROAROMATICS	1234 T-CHLOROBENZENE	*	0	0	2	0	0	=	0	0	m	0	0	7	0	0
	1235 T-CHLOROBENZENE	4	0	0	2	0	0	=	0	0	₩	0	0	7	0	0
	124 TRICHLOROBENZENE	4	0	0	~	0	0	=	0	0	٣	0	0	~	0	0
	1245 T-CHLOROBENZENE	*	0	0	2	0	0	=	0	0	m	0	0	~	0	0
	135 TRICHLOROBENZENE	4	0	0	2	0	0	Ξ	0	0	m	0	0	~	0	0
	HCB	4	0	0	2	0	0	=	0	0	m	0	0	~	0	0
	HEXACHLOROETHANE	4	0	0	2	0	0	Ξ	0	0	m	0	0	~	0	0
	OCTACHLOROSTYRENE	4	0	0	2	0	0	=	0	0	m	0	0	^	0	0
	PENTACHLOROBENZENE	4	0	0	2	0	0	=	0	0	m	0	0	^	0	0
	236 TRICHLOROTOLUENE	4	0	0	~	0	0	=	0	0	m	0	0	^	0	0
	245 TRICHLOROTOLUENE	4	0	0	2	0	0	=	0	0	M	0	0	~	0	0
	26A TRICHLOROTOLUENE	4	0	0	~	0	0	Ξ	0	0	m	0	0	7	0	0
*TOTAL SCAN CHLOROAROMATICS	AROMATICS.	28	0	•	20	0	0	154	0	0	75	0	0	86	0	0
											1				1	
РАН	PHENANTHRENE	2	0	0	~	0	0	•	•	•	•	•	•	•	•	•
	ANTHRACENE	50	•	0	~	0	•	•	•	•	•	•	•	•	•	٠
	FLUORANTHENE	5	•	0	2	•	0	٠	•	•		•	•	•	•	•
	PYRENE	2	0	0	2	•	0	٠	•	•	•	•	•	•	•	•
	BENZO(A)ANTHRACENE	2	0	•		•	0	٠	•	٠	•	•	•	•	•	•
	CHRYSENE	2	0	•		•	0	٠	•	•	•	•	•	•	•	•
	DIMETH. BENZ(A)ANTHR	ĸ	0	•	M	•	0	•	•	٠	•	•	•	•	•	•
	BENZO(E) PYRENE	2	0	0	5	•	0	•	•	•	•	•	•	•	•	•
	BENZO(B) FLUORANTHEN	8	0	•			0	•	•	•	•	•	٠	•	•	•

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

		SITE													
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TRE TOTAL P	TREATED TOTAL POSITIVE TRACE	RACE	SITE 1 TOTAL POSITIVE TRACE	VE TRAC		SITE 2 TOTAL POSITIVE TRACE	IVE TRACI	:	SITE 3 TOTAL POSITIVE TRACE	TRACE
РАН	PERYLENE	5	0	0	5	0	0					٠		•	Ī
	BENZO(K) FLUORANTHEN	5	0	0	5	0	0	•							·
	BENZO(A) PYRENE	m	0	0	m	0	0								
	BENZO(G, H, 1) PERYLEN	~	0	0	50	0	0								•
	DIBENZO(A, H) ANTHRAC	5	0	0	8	0	0								
	INDENO(1,2,3-C,0) PY	5	0	0	S	0	0							•	
	BENZO(B) CHRYSENE	~	0	0	S	0	0					•		•	
	CORONENE	50	0	0	٠	0	0	•							
*TOTAL SCAN PAH		6	0	0	20	0	0	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	*	0	0	\$	0	0	11	0	0	a 3	0		7 0	
	AI PHA BHC	4	0	M	5	0	-	=	0	60	m	0	2	2 0	2
	BETA BHC	4	0	0	~	0	0	=	0	0	۳	0	0	7 0	0
	LINOANE	4	0	0	5	0	0		0	0	m	0	0	7 0	
	ALPHA CHLORDANE	4	0	0	5	0	0	=	0	0	٣	0	0	0 2	
	GAMMA CHLORDANE	4	0	0	\$	0	0	=	0	0	۳	0	0	2 0	0
	DIELDRIN	4	0	0	•	0	0	7	0	0	~	0	0	2 0	
	METHOXYCHLOR	4	0	0	5	0	0	=	0	0	m	0	0	2 0	_
	ENDOSULFAN 1	4	0	0	5	0	0	=	0	0	~	0	0	0 2	
	ENDOSULFAN 11	4	0	0	•	0	0	=	0	0	m	0	0	7	_
	ENDRIN	4	0	0	5	0	0	Ξ	0	0	m	0	0	2	_
	ENDOSULFAN SULPHATE	4	0	0	~	0	0	=	0	0	۳	0	0	,	_
	HEPTACHLOR EPOXIDE	4	0	0	2	0	0	Ξ	0	0	۳	0	0	2	_

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

SUPPLARY TABLE OF RESULTS (1989)

		SITE			•											
SCAN	PARAMETER	TOTAL P	POSITIVE	TRACE		IREATED TOTAL POSITIVE TRACE	TRACE	SITE 1 TOTAL POSITIVE TRACE	1 T I VE TA		SITE 2 TOTAL POSITIVE		TRACE	SITE 3 TOTAL POSITIVE	TRACE	μų
PESTICIOES & PCB	HEPTACHLOR	4	0	٥		0	0	1	0	0	~	0	0	7 0	_	
	MIREX	4	_	0	'n	•	0	=	0	0	r	0	0	7 0	_	0
	OXYCHLORDANE	4	Ū	0	'n	0	0	11	0	0	m	0	0	7 0	_	0
	00001	4	•		'	•	0	=	0	0	ĸ	0	0	7	_	0
	PCB	4	Ū	•	'n	•	0	=	0	0	2	0	0	_	0	0
	000	4		0		•	0	=	0	0	m	0	0	7 0	_	0
	PPODE	4	Ū	0	5	•	0	=	0	0	m	0	0	7 0	_	0
	PPDDT	4	0		5	•	0	=	0	0	r	0	0		0	0
	AMETRINE	2	_	•	'n	•	0	9	0	0	r	0	0	'n	0	0
	ATRAZINE	2	•		5		0	9	0	-	r	0	0	'n	0	0
	ATRATONE	5	•		5		0	9	0	0	m	0	0	m	0	0
	CYANAZINE (BLADEX)	2	0		5	•	0	9	0	0	r	0	0	'n	0	0
	D-ETHYL ATRAZINE	2	•		5		0	9	0	0	m	0	0	m	0	0
	D-ETHYL SIMAZINE	2	0		5	•	0	9	0	0	n	0	0	m	0	0
	PROMETONE	2	•		10	•	0	9	0	0	м	0	0	m	0	0
	PROPAZINE	2	0	•	•	0	0	9	0	0	n	0	0	m	0	0
	PROMETRYNE	2	0		5	•	0	9	0	0	m	0	0	n	0	0
	METRIBUZIN (SENCOR)	2	0	0	ĸ		0	9	0	0	m	0	0	m	0	0
	SIMAZINE	2	•	0	Ŀ	•	0	9	0	0	n	0	0	m	0	0
	ALACHLOR (LASSO)	2	_	0 0	in.	•	0	9	0	0	n	0	0	m	0	0
	METOLACHLOR	2	J	0		•	0	•	0	0	m	0	0	m	0	0
*TOTAL SCAN PESTICIOES & PCB	DES & PCB	149		e O	170	0	-	309	0	٥	102	0	7	86		2
PHENOL I CS	PHENOLICS	2		3 2	2	m	. 2									

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

		SITE															
SCAN	PARAMETER	TOTAL P	RAW TOTAL POSITIVE TRACE	TRACE	TOTAL	TREATED TOTAL POSITIVE TRACE	: TRACE		SITE I TOTAL POSITIVE	TRACE		SILE 2 TOTAL POSITIVE TRACE	IVE TR/		TOTAL POSITIVE TRACE	IVE TR	ACE
*TOTAL SCAN PHENOLICS	S	2	m	8	•	1 1 1 1 1 1	3 2	• • •	0	0	0	0	0	0	0	0	0
SPECIFIC PESTICIOES TOXAPHENE	TOXAPHENE	•	0	0	\$	6 1 1 1 1	0 0	=			0	m	0	0	7	0	0
*TOTAL SCAN SPECIFIC PESTICIDES	PESTICIDES	4	0	0	u n		0	=	_		0	m	0	0	٧	0	0
		•		0			-	-	_			m	0	0	7	0	0
W ULALILES	TOTALENE			0			0	-	_	0	₩	ĸ	0	~	7	0	7
	FINYI BENZENE			0	.		•	<u>-</u>	_		2	m	0	7	7	0	-
	P-XYLENE	'n	0	0	•		0 0	-	_	c		_	0	0	7	0	0
	A-XYI FILE	•	J	0	•		0 0	-	_	0	_	m	0	0	7	0	-
	O-XXI EEF	•		0	•		0	-	_	0	_	m	o	0	7	0	0
	CTYPENE	· •		_	•		0 2	-	_	0	8	m	-	7	7	0	7
	1.1 DICHIOROETHYLENE	· •		-	•		0 0	-	_	0	0	3	0	0	7	0	0
	METHYLENE CHLORIDE	50	Ŭ	0	•	۰,	0 0	-	_	0	0	m	0	0	_	0	0
	T1 201CHLOROETHYLENE	5	Ŭ	0		5	0	• 0	_	0	0	m	0	0	7	0	0
	1 1 DICHIOROFIHANE	5	Ū	0	•	•	0 0	_	-	0	0	r	0	0	^	0	0
	CHOROFORM	·	J	0	-	5	2	0	-	_	0	۳	m	0	7	7	0
	111 TRICHLOROETHANE	5	J	0	-		0	0	_	0	0	m	0	0	7	0	0
	1 2 DICHIOROFIHANE	•	_	0	-		0		_	0	0	×	0	0	7	0	0
	CARBON TETRACHLORIDE	•	Ū	0	-	•	0	0	_	0	0	m	0	0	7	0	-
	1.2 DICHLOROPROPANE	\$	_	0		5	0	1	_	0	0	m	0	0	7	0	0
	TRICHLOROETHYLENE	\$		0		5	0	,	_	0	0	m	0	0	7	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY

SUMMARY TABLE OF RESULTS (1989)

		SITE														
			RAN		TRE	TREATED		SITE	_		SITE 2	2		SITE 3		
SCAN	PARAMETER	TOTAL PO	POSITIVE	E TRACE	TOTAL P	TOTAL POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	11 VE 1		TOTAL POSITIVE TRACE	TIVE TR		TOTAL POSITIVE TRACE	E TR	CE
VOLATILES	DICHLOROBROMOMETHANE	2		0	2	2	0	=	=	0	m	m		7		
	112 TRICHLOROETHANE	~		0	~	0	0	=	0	0	· M	0	0	. ~	. 0	
	CHLOROD I BROMOMETHANE	~		0	2	0	5	=	0	٥	~	0	~		0	• •
	T-CHLOROETHYLENE	2	_	0 0	~	0	-	=	0	-	m	0	0	. ~		~
	BROMOFORM	~	_	0 0	~	0	0	11	0	0	m	0	0	. ~	. 0	. 0
•	1122 T-CHLOROETHANE	8		0 0	~	0	0	11	0	0	•	0	0	. ~	. 0	. 0
•	CHLOROBENZENE	2	Ī	0 0	~	0	0	=	0	0	~	0	0			. 0
	1,4 DICHLOROBENZENE	5		0	5	.0	0	=	0	0	m	0	0	. ~		
	1,3 DICHLOROBENZENE	~		0 0	~	0	0	11	0	0	m	0	0	. ~	. 0	. 0
	1,2 DICHLOROBENZENE	8	_	0	~	0	0	=	0	0	m	0	0	^	0	0
	ETHLYENE DIBROM10E	2	•	0	~	0	0	=	0	0	m	0	0	7	0	0
	TOTL TRIHALOMETHANES	2	•	0	v	•	0	=	=	0	m	m	٥	7	7	0
*TOTAL SCAN VOLATILES		145		-	145	16	12	319	33	2	87	10	٥		12	20
*TOTAL GROUP ORGANIC		7.0		•	476	19	5	893	æ	34	234	0	Ξ	767	21	22
TOTAL		9	147	3	739	Ę	8	1839	73.1	235	519	202	\$	1156 44	7 077	₹

KEY TO TABLE 5 and 6

- A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
 - 1. Maximum Acceptable Concentration (MAC)
 - 1+. MAC for Total Trihalomethanes
 - 1*. MAC for Bacteriological Analyses
 Poor water quality is indicated when :
 - total coliform counts > 0 < 5
 - P/A Bottle Test is present after 48 hours
 - Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
 - Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
 - Standard Plate Count should not exceed 500 organisms per ml at 35 °C within 48 hours
 - 2. Interim Maximum Acceptable Concentration (IMAC)
 - 3. Maximum Desirable Concentration (MDC)
 - 4. Aesthetic or Recommended Operational Guideline
 - hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.
- B HEALTH & WELFARE CANADA (H&W)
 - 1. Maximum Acceptable Concentration (MAC)
 - Proposed MAC
 - 3. Interim MAC
 - 4. Aesthetic Objective (AO) (for xylenes, a total)
- C WORLD HEALTH ORGANIZATION (WHO)
 - Guideline Value (GV)
 - 2. Tentative GV
 - 3. Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
 - 1. Maximum Contaminant Level (MCL)
 - Suggested No-Adverse Effect Level (SNAEL)
 - 3. Lifetime Health Advisory
 - 4. EPA Ambient Water Quality Criteria
 - 5. Maximum Contaminant Level Goal (MCLG)
- F EUROPEAN ECONOMIC COMMUNITY (EEC)
 - 1. Health Related Guideline Level
 - 2. Aesthetic Guideline Level
 - 3. Maximum Admissable Concentration (MADC)
- G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- H USSR MAXIMUM PERMISSIBLE CONCENTRATION
- I NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor.
Studies of long-term environmental trends and modelling may however, be adversely affected by the exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported with the code "<T". Results qualified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. The average of such data however, is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

•	No Sample Taken
BDL	Below Minimum Measurable Amount
< T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!cs	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IS	No Data: Insufficient Sample
!IV	No Data: Inverted Septum
!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded

```
No Data: Laboratory Accident
! LA
         No Data: Test Queued After Sample Discarded
! LD
         No Data: No Authorization To Perform Reanalysis
! NA
         No Data: No Procedure
!NP
         No Data: Sample Not Received
! NR
         No Data: Obscured Plate
!OP
         No Data: Quality Control Unacceptable
! QU
         No Data: Procedural Error - Sample Discarded
!PE
         No Data: Sample pH Outside Valid Range
!PH
         No Data: Received Empty
!RE
         No Data: See Attached Report (no numeric results)
!RO
         No Data: Sample Missing
!SM
         No Data: Send Separate Sample Properly Preserved
!ss
         No Data: Indeterminant Interference
!UI
          No Data: Time Expired
!TX
          Approximate, Total Count Exceeded 300 Colonies
A3C
          Additional Peak, Large, Not Priority Pollutant
APL
          Additional Peak, Less Than, Not Priority Pollutant
APS
          Possible Contamination, Improper Cap
CIC
CRO
          Calculated Result Only
          Test Performed On Preserved Sample
PPS
          P and M-Xylene Not Separated
RMP
          Rerun Verification
RRV
RVU
          Reported Value Unusual
          Several Peaks, Small, Not Priority Pollutant
SPS
          Unreliable: Could Not Confirm By Reanalysis
UCR
          Unreliable: Contamination Suspected
UCS
         Unreliable: Indeterminant Interference
UIN
XP
          Positive After X Number of Hours
```

T# (T06) Result Taken After # Hours

TABLE 5

				DRINKING WA	TER SURVEILLANCE	DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY UTP 1989	WTP 1989	
	WATER TREA	WATER TREATMENT PLANT		DISTRI	DISTRIBUTION SYSTEM			
	RAH	TREATED	SITE 1		SITE 2	5	SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
FECAL COLIFORM MF	BACTERIOLOGICAL RM MF (CT/100ML)	IL)	DET'N L	DET'N LIMIT = 0	GUIDELIN	GUIDELINE = 0 (A1)		
AUG	0	•	•	•			•	
SEP	0	٠	•	•			•	
100	-	٠	•	•			•	•
NOV DEC	00			• •				
STANDARD PLA	STANDARD PLATE CNT MF(CT/ML	II)	DET'N	DET'N LIMIT =	GUIDELINE	NE #		
· "	,	•	•	27	751	2	:	•
8			•	ĸ	75 124			
MAR		•	•	23	124	. 29	. 29 124	
APR		•	•	7	(1)		•	• !
HAY	•	٠	•	97			•	25
N :	•	•	•	. 60	120	•	•	((() () () () () () () () ()
Aug.	• •			700 A3C	ASL			2 (
SEP	•	⟨±⟩ 9		22		•	•	•
00			•	072			٠	
NOV	•	20	٠	170			•	\$ <e></e>
DEC	•	1 <=>	•	75				*
TOTAL COLIFORM MF	RM MF (CT/100ML	۱۱)	DET'N	DET'N LIMIT =	GUIDELINE	# 3K		
JAN	•	•	•	0	124	0	124	
FE8	•	•	•	0	124		0 124	•
MAR		٠	•	0 (124	•	124	•
APR .	•	٠	•	0 (0 (•	•	
MAY		•	•	9			•	-
	•	•	•	. c	0 A3C		•	9 0
Au Au	. 801	. 0	• •	SOI				0
SEP	2 A3C	0	•	2		•	•	
001	76 A3C	0	•	-	1 A3C		•	0
NOV	32	0	•	0 (•	•	٥,
DEC	50	٥	•	>	_		•	٥

	RAU TR	rreate0	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
T COLIFORM	T COLIFORM BCKGRO MF (CT/100ML	•	DET'N LIMIT =	DET'N LIMIT =	GUIDELINE =	, , , , , , , , , ,		1
NAL			•	5 12		2 12		•
FEB	•	•	•	0 12		721 0	•	•
MAR	•	•	•	162 124		0 12	•	•
APR	•	•	•	0	•	•	•	•
MAY	•	•	•	2	•	•	•	111
JUN	•		•	•	•	•	•	0
JUL	٠	•	•	1200	•	•	•	0
AUG	< 0087	0	•	SOI	•	•	•	0
SEP	2600 A3C	0	•	92	•	•	•	
001	1400 A3C	m	•	5 400 ×	•	•	•	160
NOV	122	0	•	270		•	•	0
DEC	80	0	•	0	•		•	0

Chical Reference Chical Refe									
(MG/L) DET'N LINIT = GUIDELINE = 1200				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
100 100	D CHLORINE	CHEMIS (COMB) (MG/	`	DET'N LIP		•			
1.200	NAL		•	.200	.200	.100	.200	•	•
150 1100 1	FEB			.200	.200	.100	.200	•	•
1,050	MAR		•	.150	.100	.200	100	•	٠
6/1) DET'N LINIT = GUIDELINE = 100 100	APR			.050	.050	•	•	•	•
100 100	MAY	•	•	.050	•	•	•		•
1.00 1.200 1.200 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.000 1.200	NOF		•	•		•	•	300	.300
100 100	JUL		•	.200	.200	•	•	.100	. 100
100 050 090	AUG		.100	.100	100	•	•	300	.300
1300 1300	SEP	•	100	.050	080	•	•		'
1330 1550	DCT		050	000	050	•	•	• 000	. 001
6/L) DET'N LINIT = GUIDELINE =	2	•	330	050	050	•	•	000	000.
(MG/L) DET'N LIMIT = GUIDELINE = 11001501001501001501001501	DEC		.210	000.	050	• •	• •	. 200	2007.
100 150 100 150 100 150 150 100 150	CHLORINE	FREE (MG/L	(DET'N LIP					
(MG/L) DET'N LINIT = GUIDELINE = (200 100 100 100 100 100 100 100 100 100	JAN	•	•	.100	.150	.100	.100	•	•
150 100 150	FEB	•	•	.100	.150	100	100	•	
. 100 . 100	MAR		•	.150	.200	100	100		•
	APR	•	•	001.	100	•			•
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 150 100 150 100 150	MAY	•	٠	.250	.300	•	•	100	100
100 100 100 100 100 100 100 100 100 100 150 100	NOF		•			•	•	. 200	.300
1550 100 200	JUL	•	•	000.	.100	•	•	.100	.200
. 550 . 200220	AUG	•	.550	.100	.200	•	•	.200	.200
. 950 . 100 . 150	SEP		.550	.200	.220		•	•	•
.320 .100 .1501001001002002002002002002003002003002003002003002003002	OCT	•	.950	.100	.150	•	•	.200	. 200
(MG/L) DET'N LIMIT = GUIDELINE = .200 .300 300 .350 .200 .300 300 .350 150 150 200 .	HOV	•	.320	.100	. 150	•	•	.100	.200
(MG/L) DET'N LINIT = GUIDELINE = 300 350 200 300 300 300 300 300 300 150 300	DEC	•	.450	. 150	. 150	•	•	.200	.200
.300 .350 .200 .300 .300 .350 .200 .300 .300 .300 .300 .200 .150 .150 . 100 .300 .300 . 100 .200 .300 . 200 .200 . 300 . 200 .200 . 300 . 200 .200 . 300 . 200 .200 . 300 . 200 .200 . 300 . 300	CHLORINE			DET'N LIP					
. 300 .350 .200 .300 . 300 .300 .300 .200 . 150 .150 . 150 . 100 . 300 .300 . 100 . 100 . 200 .300 . 200 . 200 . 650 . 250 . 300 . 200 . 650 . 250 . 300 . 200 . 100 . 100 . 700 . 200 . 650 . 150 . 200 . 200	JAN	•	•	.300	.350	. 200	.300	•	•
	FEB	•	•	300	.350	. 200	.300	•	•
	MAR		•	300	.300	300	.200		•
	APR	•	•	.150	.150	•			•
	MAY	•	•	300	.300		•	100	.100
	NOT	•	•		•		•	009.	009.
	JUL	•	•	.200	.300	•	•	. 200	300
	AUG	•	.650	.200	.300		•	.500	.500
. 1.000 .100 .700200300300300	SEP		.650	.250	.300	•	•		•
	001		1.000	.100	.700	•	•	.200	.300
700 700 700 700 700 700 700 700 700 700	NON.	•	.650	150	.200	•	•	300	007
		•					•		

			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
FLO PH (DMNSLESS)	(88)		DET'N LIMIT		GUIDELINE =		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
NAL		,	7,200	7 200	A 800	7 000		
043	•	•	7 200	7 200	2000	200.	•	•
MAD	•	•	7 200	7.200	2,000	000.7	•	•
904	•	•	000.2	000.7	000.	000.	•	•
× ×	•	•	7 200	7 200	•	•	. 000	. 000
- Y	•	•	7.500	7.500	•	•	000.7	000.7
NS.	•	•	•	•	•	•	7.000	7.000
		•	7.200	7.200	•	•	7.200	7.000
	9.600	7.200	7.200	7.200		•	7.200	7.200
SEP	6.720	7.200	7,200	7.200	•	•	•	•
	7.000	7.290	7,200	7.000	•	•	9.800	7.200
	7.060	7.250	7.050	7.150	•	•	7.200	7.200
	7.100	7.200	7.200	7.200	•	•	9.800	7.200
FLD_TEMPERATURE (DEG.	E (DEG. C	•	DET'N LIMIT	= 11	GUIDEL INE =			
. YY:	,	,	18,000	900	7,000	7		
FFB		• •	15,000	000.7	000	000-7	•	•
MAD	•	•	18 000	009	000 0	7 000	•	•
ADP	•	•	16.500				•	•
X X	•	•	16.000	000.4	•	•	• 000	. 000 2
1	•	•			•	•	13 000	000
	•	•	17 000	11 000	•	•	000.21	11,000
			000:11	000:	•	•	000:41	000.
שנים ש	7.000	7.000	17.000	00.00	•	•	10.000	000.01
	0.100	000.	000.71	19.000	•	•	• (
	8.300	8.300	16.000	000.11	•	•	12.000	10.000
	3.300	3.300	16.000	8.000	•	•	11.000	9.000
DEC	2.200	2.200	16.000	8.000	٠	•		2.000
FLD TURBIEITY (FTU	(FTU)		DET'N LIMIT	= 1	GUIDEL INE =			
JAN	•	•	007.	007.	•	•	•	•
FEB		•	009.	009.	•	•	•	•
MAR		•	•	.540		•	•	•
HAY		•	•	.520	•	•	•	•
AUG	.600	909.	•		•	•	٠	•
SEP	.550	.550	•	•	•	•	•	•
00.1	.500	.500	•	•				•
NOV	.500	.500	•	•		•	•	•

			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
ALKALINITY (MG/L	٥	(148)	DET'N LIMIT	1	GUIDEL INE =	1 1 1 2 3 3 5 5 1 1 7 7 7 8		0 1 0 0 0 1 0 0 1 0 1 0 1 1 0 1 1 1 1 1
JAK		•	20.100	19.200	19.200	19,400	•	•
FEB		•	21.600	20.900	21.400	20,700	•	•
MAR		٠	22.200	22.200	22.100	22.500	•	•
APR		•	19,900	18.400			•	•
HAY	•	•	18,800	18.200	•	• (18.500	17.900
NOR	•				•	•	20 000	10 100
Ę		•	20.400	18,600	•	•	10 800	19 400
Alic	13,000	21,700	24 500	23 300	•	•	2,000	27, 100
9 0 0	13 000	21 100	23.400	000.00	•	•	000.43	001.43
756	000:51	000.12	001.22	000.02	•	•	• :	•
3	13.400	17.000	17.700	17.500	•	•	20.100	20.500
№	13.300	17.100	18.100	17.500		•	17.500	17.200
DEC .	13.600	15.900	17.200	16.700	•	•	16.600	16.500
כאוכוחא (אפ/ו	MG/L)		DET'N LIMIT	H _	GUIDELINE =		2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
JAN	•	•	6.200	9.000	9.400	9.400	•	•
FEB	•	•	2.000	9.800	7.000	9.400	•	•
MAR		٠	0000	7.800	7.800	8.200	•	•
AP.	•	•	9.600	6.800	•	•		•
HAY	•	•	9.000	5.800	. •	•	6.200	6.200
NO.	•	•	•	•	•	•	6.800	6.800
=	•	•	6.200	9.000			9 400	A 200
Atio	007.9	6.800	9.000	9 500	•	•	007.9	92.5
SFP	6.200	2.000	7.000	007.9	• ,	•		
100	9.000	2.400	6.200	5.800			009.9	9 000
ACM.	2.000	7.000	7.600	7.400	• •	•	007 2	7 000
0EC	8.100	8.000	8.500	8.200	•	•	7.900	8.300
CHLOR 10E	(HG/L)		DET'N LIMIT	11	GUIDELINE =			
JAN	•	•	16.800	16.500	16.500	16.700		•
FE8	•		18.000	18.000	18.500	17.300	•	•
HAR	•	•	22.500	22.400	22.000	22.100	•	•
APR	•	•	19,400	19.200	•	•	٠	•
MAY	. •	•	16.000	16.000	•		17.500	17.900
N	•	•	•	•	•	•	14.200	14.800
בות ה	•	•	14.600	14.000	•	•	14.300	14.500
Atio	12, 300	13,600	14,000	13.800		•	13.600	13 600
SEP	12.300	13.800	14,100	14.000	•	•		
	13.000	14.400	14.800	14,700	•	•	15.200	15, 100
	13 200	14, 400	16 700	16 700	•	•	16 700	16 700
> 0	007.51	004.	200.11	000	•	•	001:11	14.700

					1		
		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
COLOUR (HZU)) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DET'N LIMIT	IMIT =	GUIDELINE =			
NAL	•	5.000	10.500	9.000	5.500	•	٠
EFB	•	9.000	9,000	5.500	9.000	•	•
	•	7.500	7.000	7.000	7.000	•	•
APR	•	7.000	8.000	•	•	•	•
MAY	•	9.000	9.000	•	•	4.500	4.500
	•			•	•	9.000	5.500
	•	9 000	6.500	•	•	2,000	5.000
. 7 500	• 000	2 500	900 9	•	, ,	2.000	9.500
	000.5	200.4	900.9		•		•
	005.7	000.4	906.9	•	•	2.000	7.500
	006.4	000.0	999.9	•	•	200.7	7 500
MOV 7.000	005.4	2.300	0.300	•	•	000	2000
0.000	000.4	000.6	000.0				
CONDUCTIVITY (UMHO/CM	^ -	DET'N LIMIT =	IMIT #	GUIDELINE =			
NAL	•	135	123	125	124		•
2 2 2	, 1	138	134	136	133	•	•
NAO	•	154	154	152	154	•	•
400	•	143	140	•	•	•	•
MAY	•	121	119	•	•	128	126
		•	•	•	•	124	154
	•	119	114	•	•	117	118
	118	125	121	•		123	123
70	811	120	118	•	•	•	•
	111	111	112	,	•	120	120
	111	71,	116	•	• •	115	114
100	71.1	118	116		•	117	117
	*						
FLUORIDE (MG/L)		DET'N LIMIT	IMIT #	GUIDELINE =			
3		1,140	1.120	1.140	1.140	•	•
	•	1,120	1.100	1.140	1.120	•	•
MAD		1,100	1.120	1.120	1.100		•
A DD	•	1,100	1.100	•	•		•
MAY.		1,120	1.100	•	•	1.120	1.120
2		•	•	•	•	1.120	1.100
	. •	1.180	1.160	•	•	1.160	1.160
Aug 100	1.000	1.060	1.020		•	1.140	1.140
	096.	1.040	1.060		•		•
	0%6	076	096.		•	1.040	1.040
	1 060	1,080	1.040	•	•	1.040	.980
	070.	070	1 060			1 080	1 120

STANDING FREE FLOM STANDING								
\$5 (HG/L) DEFTM LIMIT = GUIDELINE = \$5 (HG/L) DEFTM LIMIT = HG/L DEFTM LIM					STANDING	FREE FLOW	STANDING	FREE FLOW
23.000 22.000 24.000 25.000 25.000 25.000 24.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 27.000 25.000 25.000 27.000 25.000 25.000 27	RONESS (MG/L)		DET'N LIM		,		a , , , , , , , , , , , , , , , , , , ,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
25.000 25	JAN	•	23.000	22,000	23 000	74, 000		
28.000 28.000 28.000 28.000 28.000 25	FEB	•	25.000	25.000	26.000	23.000		•
25.000 25.000 25.000 25.000 25.000 25.000 27.0000 27.0000 27.000 27.000 27.0000 27.000 27.000 27.000 27.000	HAR .	•	28.000	28.000	28,000	28.000	•	•
25.000 21.000 22	APR .	•	25.000	25.000	•	•	•	•
25.000	HAY .	•	22.000	21.000	•	•	23.000	23.000
25.000 22.000 2.2000 2.	. NOT	•	•	•	•	•	25.000	24.000
25.000 22.000 22.000 26.000 23.000 26.000 23.000 26.000 27.000 27.000 26.000 27.200 26.000 27.200 26.000 27.200 27.000 27.200 27.000 27.200 27.000 27.200 27.000 27.200 27	. ·	•	23.000	15.000	•	•	23,000	23.000
25.000 24.000 23.000 24.000 25.000 25.000 27.000 27.200 28.600 27.000 27.200 28.600 27.400 27.200 28.600 27.400 27.200 28.600 27.400 27.200 28.600 27.400 27.200 28.600 27.400 27.201 2.832 3.343 4.608 29.258 8.936 9.916 9.121 3.091 6.208 3.571 2.142 5.756 6.533 3.571 2.142 5.756 6.533 3.571 2.142 5.756 6.533 3.571 2.142 5.756 6.533 3.571 1.670 1.670 1.680 1.650 1.680 1.680 1.680 1.680 1.680 1.680 1.677 1.681 1.677 1.677 1.682 1.682 1.683 1.682 1.683 1.677 1.683 1.677 1.677 1.682 1.683 1.677 1.683 1.683 1.685 1.683 1.683 1.685 1.683 1.685 1.687 1.683 1.685 1.687 1.683 1.685 1.685 1.683 1.685 1.687 1.683 1.685 1.687 1.683 1.685 1.685		25.000	22.000	22,000			23.000	23.000
21.000		25.000	24.000	23.000	•	•		
26.000 27.000 26.000 27.200 28.600 27.400 1.211 2.832 3.343 4.608 9.740 9.284 9.033 9.545 9.740 9.121 9.283 9.245 9.121 9.283 9.245 9.121 9.283 9.245 9.121 9.283 9.245 9.121 9.283 9.245 9.121 9.283 9.245 9.121 9.245 9.246 9.246 9.		21,000	23.000	22 000	•	•	000 70	. 000 66
27.200 28.600 27.400 27.200 28.600 27.400 1.211 2.832 3.343 4.608 9.740 9.258 8.785 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.258 9.740 9.121 9.120 9.121 9.120 9.121 9.1		26.000	27 000	34 000	•	•	26.000	34,000
1.211 2.832 3.343 4.608 8.785 9.003 9.545 9.740 9.258 8.936 9.916 9.121 9.258 8.936 9.916 9.121 9.258 8.936 9.916 9.121 9.258 9.268 9.268 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.258 9.2740 9.2740 9.258 9.2740 9.2740 9.2740 9.258 9.2740		27.300	000.73	20,000	•	•	000.02	27.900
1.211 2.832 3.343 4.608 4.608 4.258 4.608 4.258 4.608 4.258 4.608 4.258 4.608 4.25		002.12	000.02	004.12		•	76.800	008.12
1.211 2.832 3.343 4.608 8.785 9.003 9.545 9.740 9.258 8.785 9.016 9.121 3.20 3.723 9.916 9.121 3.30 3.133 9.121 5.571 2.142 5.796 6.453 6.957 8.067 6.453 6.957 8.067 3.652 3.548 4.850 1.650 1.640 1.648 1.650 1.650 1.648 1.650 1.684 1.614 1.595 1.650 1.684 1.617 1.618 1.684 1.677 1.677 1.682 1.677 1.677 1.692 1.677 1.677 1.692 1.686 1.677 1.692 1.677 1.672 1.693 1.686 1.677 1.692 1.677 1.672 1.693 1.686 1.677 1.693 1.687 1.686 1.693 1.677 1.672 1.692 1.687 1.677 1.693 1.687 1.685 1.693 1.687 1.677 1.693 1.686 1.677 1.693 1.687 1.685			DET'N LIN	411 =				
8.785 9.003 9.545 9.740 9.258 8.936 9.916 9.121 3.20 3.723 3.001 6.208 5.571 2.142 5.796 13.270 5.756 6.533 3.652 3.548 4.850 1.670 4.85 3.652 3.548 4.850 1.689 1.843 1.843 1.856 1.843 1.856 1.843 1.856 1.843 1.856 1.843	NYT NYT	•	1.211	2.832	3.343	809.7		•
9.258 8.936 9.916 9.121 3.20 3.723 3.723 3.091 6.208 13.270 5.756 6.533 7.76 1.670 428 6.453 6.957 8.067 3.652 3.548 4.850) OET'N LIMIT = GUIDELINE = -1.958 -1.846 -1.949 -1.834 -1.593 -1.610 -1.608 -1.650 -1.593 -1.614 -1.595 -1.689 -1.689 -1.689 -1.689 -1.689 -1.677 -1.721 -1.692 -1.677 -1.872 -1.692 -1.677 -1.873 -1.692 -1.677 -1.873 -1.692 -1.677 -1.873 -1.693 -1.886 -1.856 -1.895 -1.895 -1.895 -1.895 -1.895 -1.895 -1.895 -1.895 -1.895 -1.873	- C		8.785	00.0	575 0	072 0	•	
5.571 3.091 6.208 5.571 2.142 5.796 13.270 5.756 6.533 6.453 6.957 8.067 3.652 3.548 4.850 1.652 -1.614 -1.949 -1.834 1.555 -1.614 -1.595 -1.650 1.689 -1.689 -1.648 1.689 -1.689 1.684 -1.716 1.684 -1.716 1.684 -1.716 1.684 -1.716 1.685 -1.677 1.692 -1.677 1.895 -1.677 1.895 -1.677 1.895 -1.677 1.896 -1.895 1.897 -1.897 1.898 -1.896 1.898 -1.897 1.898 -1.898 1.898	WAR.		9.258	8.936	9.916	9.121		•
5.571 5.091 6.208 13.270 5.756 6.533 6.453 6.957 8.067 3.652 3.548 4.850 1.652 1.958 1.656 1.650 1.689 1.689 1.684 1.716 1.684 1.716 1.684 1.716 1.684 1.716 1.685 1.677 1.895 1.845 1.846 1.846 1.846 1.677 1.895 1.843 1.895 1.843 1.896 1.813 1.896 1.813 1.896 1.813 1.896 1.813 1.896 1.813 1.896 1.813 1.896 1.8186 1.896 1.8186 1.896 1.8186 1.897 1.897 1.897 1.898 1.896 1.896 1.898 1.898 1.896 1.898 1.898 1.898 1.898	APR	•	.320	3.723	•	•	•	•
5.571 5.142 5.796 13.270 5.756 6.533 6.453 6.957 8.067 3.652 3.548 4.850 1.652 1.649 -1.846 -1.949 -1.834 1.555 -1.610 -1.608 1.689 -1.648 1.684 -1.716 1.684 -1.716 1.684 -1.716 1.685 -1.680 1.685 -1.843 1.685 -1.843 1.686 -1.716 1.687 -1.875 1.895 -1.843 1.895 -1.843 1.895 -1.843 1.895 -1.843 1.895 -1.843 1.895 -1.843 1.895 -1.843 1.895 -1.843 1.895 -1.8184 1.895 -1.8184 1.895 -1.8184 1.895 -1.8184 1.895 -1.8184 1.895 -1.8184 1.895 -1.8184 1.895 -1.8185 1.895 -1.8188 1.895 -1.8188 1.896 -	HAY	•	300	.313	•	•	112.	990
5.571 5.776 13.270 5.756 6.533 776 1.670 4.28 6.453 6.957 8.067 3.652 3.548 4.850) 0ET/N LIMIT = GUIDELINE = -1.958 -1.846 -1.949 -1.650 -1.593 -1.649 -1.649 -1.649 -1.649 -1.649 -1.689 -1.689 -1.680 -1.677 -1.692 -1.825 -1.835 -1.835 -1.835 -1.835 -1.835		•	•	•	•	•	6.007	9.161
5.571 2.142 5.796	יחר	•	3.091	6.208	•	•	7.111	9.600
13.270 5.756 6.533		5.571	2.142	5.796	•	•	6.154	5.922
6.453 6.957 8.067		13.270	5.756	6.533	•	•	•	
6.453 6.957 8.067		911.	1.670	.428	•	•	3.334	579.
3.652 3.548 4.850		6.453	6.957	8.067	•	•	5.872	4.887
) DET/N LIMIT = GUIDELINE = -1.958 -1.846 -1.949 -1.834 -1.565 -1.610 -1.608 -1.650 -1.593 -1.614 -1.595 -1.550 -1.689 -1.689 -1.688 -1.689 -1.843 -1.637 -1.684 -1.716 -1.692 -1.677 -1.721 -1.900 -1.823 -1.856 -1.835 -1.886 -1.802		3.652	3,548	058.7	•	•	.125	7.006
	GELIERS INDEX (DHNSLE!	SS)	0ET'N LIM	# L	GUIDELINE =			1 1 1 1 1 1 2 1 1 1
-1.565 -1.610 -1.608 -1.650 -1.593 -1.614 -1.595 -1.596 -1.689 -1.688 -1.643 -2.295 -1.687 -1.716 -1.716 -2.298 -1.692 -1.677 -1.721 -2.070 -1.900 -1.823 -1.856 -1.802	, TAN	•	-1.958	-1.846	-1.949	-1.834	•	•
-1.593 -1.614 -1.595 -1.596 -1.689 -1.688 -1.643 -2.295 -1.637 -1.680 -1.677 -1.716 -2.298 -1.692 -1.677 -1.721 -2.070 -1.900 -1.823 -1.856 -1.802		•	-1.565	-1.610	-1.608	-1.650	•	•
-1.689 -1.688		•	-1.593	-1.614	-1.595	-1.596	•	•
-2.295 -1.637 -1.677 -1.716 -2.298 -1.690 -1.677 -1.670 -1.690 -1.677 -1.690 -1.677 -1.716 -2.070 -1.900 -1.823 -1.856 -1.802 -1.835 -1.886 -1.802	APR .	•	-1.689	1.688	•	•	•	
-2.295 -1.637 -1.680 -1.677		•	-1.895	-1.843	•	•	-1.821	-1.7%
-2.295 -1.637 -1.680 -1.677	NOT.	•	•	•	•	•	-1.905	-1.925
-2.295 -1.637 -1.680 -1.677		•	-1.684	-1.716	•	•	-1.712	-1.701
-2.298 -1.692 -1.677 -1.721		-1.637	-1.680	-1.677	•	•	-1.562	-1.577
-2.070 -1.900 -1.823 -1.856		-1.692	-1.677	-1.721	•	•	•	
-2.087 -1.835 -1.886 -1.802		-1.900	-1.823	-1.856	•	•	-1.674	-1.717
		-1 845	-1.886	-1.802	•		-1.852	-1.843
4 05 6 4 7/7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		672.	000	4 700	•	•		

MAGNESIUM (MG/L								
MAGNESIUM (MG/		,	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
	, ,	• • • • • • • • •	DET'N LIMIT	7 11 =	GUIDELINE =	P P P P P P P P P P P P P P P P P P P		1 1 1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5
MA	,	,	008	1 800	1 800	2 000		
F 8	• •	• •	1.800	1.900	2.000	1.700	•	•
H W			2,000	2.000	2.100	2,000	•	•
APR		•	2,000	1.900	•			
MAY		•	1.700	1.600	•	•	1.700	1.800
NOS	•	•	•	٠	•	•	1.900	1.800
			1.800	1.900	•	•	1.800	1.800
	1.800	1.800	1.800	1.800	•	•	1.800	1.800
	1.500	1.800	1.500	1.600	•	•	٠	•
	1.900	1.900	1.900	1.900	•	•	1.800	1.800
NO.	2.000	2.000	2.000	1.900	•	•	1.800	1.900
	1.750	1.750	1.800	1.700	٠	•	1.750	1.750
SODIUM (MG/L	•		* TIMIT *		GUIDEL INE =		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
					:			
JAN		•	14.000	13.400	13.400	13.400	•	•
FEB			15.200	15.000	15.200	15.200		
MAR			18.800	18.600	18.400	18.200	•	•
APR			14.800	14.600	•	•	•	•
MAY	•		13.400	13.400	•	•	14.400	14.000
NON	•		•	- !	•	•	12.800	13.600
	•	•	13.000	12.400	•	•	13.400	13.400
	7.800	13.600	15.000	15.200	•	•	15.400	15.400
	8.000	14.800	14.200	14.200	•	•	•	•
	7.800	11.600	11.800	11.800	•	•	13.400	13.600
¥0	7.600	11.400	11.800	11.800	•	•	11.800	11.600
DEC	6.500	9.700	10.000	10.300	•	•	9.800	10.100
AMMONIUM TOTAL (MG/I	(HC/L)	• • • • • • • •	DET'N LIMIT	= 114	GUIDELINE =			
JAN		•	.75	720.	.130	900.		•
FEB	•	•	890.	80F	.114	. 000 ×T	•	•
MAR	•	•	.032	108	.002 <	BDL	٠	•
APR		•	.170	108	•	•	•	•
MAY	•	•	. 006 <t< td=""><td>.000 <⊤</td><td>•</td><td>•</td><td>780.</td><td></td></t<>	.000 <⊤	•	•	780.	
NOC			•	•	•	•		•
JUL	•	•	.036	B01		•		B0L
AUG	.002 <t< td=""><td>.002 <t< td=""><td>.230</td><td>.008 <t< td=""><td></td><td>•</td><td>.002 <t< td=""><td>.004 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.002 <t< td=""><td>.230</td><td>.008 <t< td=""><td></td><td>•</td><td>.002 <t< td=""><td>.004 <t< td=""></t<></td></t<></td></t<></td></t<>	.230	.008 <t< td=""><td></td><td>•</td><td>.002 <t< td=""><td>.004 <t< td=""></t<></td></t<></td></t<>		•	.002 <t< td=""><td>.004 <t< td=""></t<></td></t<>	.004 <t< td=""></t<>
SEP	108		.002 <t< td=""><td>80F</td><td>•</td><td>•</td><td>• !</td><td></td></t<>	80F	•	•	• !	
100	.004 <t< td=""><td>.004 <t< td=""><td>.020</td><td>•</td><td>•</td><td></td><td></td><td>•</td></t<></td></t<>	.004 <t< td=""><td>.020</td><td>•</td><td>•</td><td></td><td></td><td>•</td></t<>	.020	•	•			•
NOV	.010	BOL	.004 <t< td=""><td></td><td>•</td><td>•</td><td>.004 <t< td=""><td></td></t<></td></t<>		•	•	.004 <t< td=""><td></td></t<>	
DEC	.008 <t< td=""><td>801</td><td>.016</td><td>108</td><td>•</td><td>•</td><td>B0L</td><td>108</td></t<>	801	.016	108	•	•	B0L	108

E (46/L) DET/4 LINIT = GUIDELINE = 100/4 ct					
1005 1004 1005 1005 1006 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008 1007 1008			FREE FLOW	STANDING	FREE FLOW
		,	· · · · · · · · · · · · · · · · · · ·	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	b 0 0 0 0 0 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1
1001 1 1001 1 1001 1 1001 1		₽	700	•	•
1007 1008 1009	. 002 <1	.	.001	•	•
				•	
		↓		•	•
1001 <	600.	. 900.	•	500.	900.
1,001 < T 0.003 < T 0.003 < T 0.003 < T	•		•	200.	. 004 <t< td=""></t<>
1001 et 1003 et 1002 et 1002 et 1002 et 1003 et 1004 et 1004 et 1004 et 1005 et 1005 et 1006			•	.004 <1	. 000.
BDL .001 <	<t .003<="" td=""><td></td><td>•</td><td>.002 <1</td><td>. 200.</td></t>		•	.002 <1	. 200.
. 006 . 003 <↑ . 004 <↑	.00		•	•	
	.003	.004 <1	•	.003 <t< td=""><td>.002 <⊤</td></t<>	.002 <⊤
.005 .005 .006) DET'N LINIT = GUIDELINE = 11.240245335425410425425426425426	<1 .003		•	.003 <t< td=""><td></td></t<>	
) DET'N LIMIT = GUIDELINE = 1,240		. 900.	•	.005	800.
1.240 . 2453354264003203203203203202204202402402402402402402402402404102402404102402404102502					
1,240 .245 .335 .425 .425 .425 .425 .425 .425 .425 .42	DET'N LIMIT =				
. 435 . 285 . 425 . 425 . 405 . 350 . 355 . 425 . 466 . 400 . 400 . 400 . 400 . 400 . 400 . 320 . 315	1.240		.235	•	•
	. 435		.280	•	•
	507.		.350	•	٠
	089.		•	•	
	320	.315	•	.500	.330
. 230 . 270			•	.335	. 290
.230 .560 .230		.270	•	.300	.275
.300 .330 .320		. 230	•	.210	.235
. 195 220 195		.320	•	•	•
.240 .390 .210240 .300 .235960 .240 .320370 .280370 .280370 .280370 .280370 .280370 .280370 .280370 .280370 .280370 .280370 .280370 .280370 .280370		. 195	•	.250	.225
) DET'N LIMIT = GUIDELINE = .960 .240 .320 .320 .280 .410 .340 .260 .270 .620 .280 .170 .540 .180 .220 .210 .190 .240 .250 .210 .250 .250 .210		. 210	•	.300	.200
) DET'N LIMIT = GUIDELINE = 960 240 320 350 280 410 340 280 270 620 280 320 280 400 180 400 180 540 180 220 210 190 220 250 210		. 235	•	.250	.225
	DET'N LIMIT =	GUIDELINE =			
	096		.270	•	
	390		.210	•	•
	340		.270	•	•
			•	•	•
. 180 . 170 . 540	,320	.250	•	.390	.240
	•	•	•	.240	.170
. 180 170 540	007	. 180	•	.220	. 190
. 190 220 210 250 240 250 250 250		. 180	•	. 180	.180
. 250 . 240 . 250 . 250 . 250 250 250 250 250		. 190	•	•	
.240 .220 .250		.210		. 290	.210
		.210	•	.280	.300
. 170		. 170	•	.170	. 180

	,	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PH (DMNSLESS)		DET'N LIMIT	- 11	CUIDELINE =		*	
JAN .	•	7.320	7.460	7.330	7.440		•
FEB .	•	7.630	7.610	7.590	7.600		•
MAR .	•	7.540	7,530	7.550	7.520		
APR .	•	7.570	7.590	•	•	. •	•
MAY .	•	7.420	7.500	•	•	1.490	7.530
. NOR	•	•		•	•	7.330	7.330
	•	7.580	7.600	•	•	7.550	7.580
	7.560	7.540	7.530	•	•	7.620	7.610
SEP 7.150	7.500	7.500	7.520	•	•	•	•
	7.500	7.500	7.500	•	•	7.570	7.560
	7.450	7, 74.0	057.7		•	007 2	077 2
	7.510	7.520	7.520			7.530	7.520
PHOSPHORUS FIL REACT (MG/L	MG/L)	DET'N LIMIT	411 = .0005	GUIDELINE =	= N/A		
AUG BOL	.004	•	•	•	•	•	•
	•	•	•	•		•	•
	.003		•	•	•	•	•
	80F	•	•	•	•		•
	1> 100.	•	•		•	•	•
PHOSPHORUS TOTAL (MG/L	(DET'N LIMIT	411 × .002	CUIDELINE =	.40 (F2)	1 1 1 2 2 3 3 4 6 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	.010				•		•
		•	•	•	•	•	•
oct .002 <1		•	٠	٠	•		•
.005		•	•		•	•	•
DEC .004 <t< td=""><td>1> 600.</td><td>•</td><td>•</td><td>٠</td><td>•</td><td>•</td><td>٠</td></t<>	1> 600.	•	•	٠	•	•	٠
SULPHATE (MG/L)		DET'N LIMIT	417 =	GUIDELINE =			
JAN .	•	6.860	97.9	7.310	9.940		•
FEB .	•	7.740	5.150	7.800	4.780		•
MAR .	•	7.640	7.220	7.290	7.350		•
APR .	•	• 7.320	7.300			•	•
MAY .	•	8,140	8.140		•	8.650	8.680
. NUL	•	•	•	•		8.140	8.110
	•	7.290	7.240	•	•	7.400	7.460
	0.040	0.040	8.950	•	•	9.270	8.980
	8,210	8.070	8.140	•	•		•
OCT 8.690	8.540	8.510	8.480	•	•	8.600	8.660
NOV 8.850	8.940	8.850	8.730			9.020	9,140

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

_	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
TURBIDITY (FTU	•		l .	# L	GUIDELINE =	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 5 7 6 1 1 1 1 1 1 1 1 2 1 3 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		•	.850	0.470	.850	0%6.	•	•
		•	.840	.800	096.	.410	•	•
	•	•	.710	.780	.790	8£.	•	•
		•	1.240	.850	•	•		•
		•	.880	.910	•	•	006.	.850
	•	•	•	•	•	•	1.080 RRV	
		•	.870	069.	•	•	.880	870
7.	410	.380	089.	0.470	•	•	.590	909
•	.500	099.	.710	.820	•	•	•	•
٣.	920	909.	.730	.860	•	•	006.	099
~ ?	510	007.	069.	.570	•	•	1,230	099.
~;	370	.360	.650	.500	•	•	.510	.590

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

STANDING

SITE 1

TREATED

RAU

FREE FLOW STANDING FREE FLOW

SITE 2

FREE FLOW

STANDING

SITE 3

TABLE 5

WATER TREATMENT PLANT

TALS STANDING FREE FLOM STANDING FREE FLOM		RAW	TREATED	SITE 1		SITE 2		SITE 3	
HETALS				STAMDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
Company Company Company Company Company Company		METALS		- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
1590 140 1	SILVER (•			DET'N LIMIT =	GUIDELINE =			
1,200 ct 1,200 ct 1,40 ct 1,	:			9	1,040 .	1>001.		•	•
1.20 cT BDL .240 cT .220 cT BDL .240 cT .220 cT BDL .250 cT .270 cT BDL .270 cT .270 cT	MAL .	•	•	₩.	.030 <1	.140 <t< td=""><td></td><td>٠</td><td></td></t<>		٠	
1.220 < BDL	1 1 1	•	•	1> 020	108	.240 <t< td=""><td></td><td>•</td><td>•</td></t<>		•	•
1.000 12.000 14	NAK.	•	•	1> 022.	BOL		•		
1,000 1,00	X :	•	•	270 <1	1> 000.	•		BOL	8 0
1,000 1,00	¥	•	•			•	•	8 0	.030 <t< td=""></t<>
SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SOL SO	NOT	•	•	. 26.0	· ca	•	•	BOL	BOL
1,000 1,00	JUL	•		1. 0/2	8	•		3	BOL
BDL	AUG	.040 <t< td=""><td>801</td><td>1,60 .1</td><td>108</td><td>•</td><td>•</td><td></td><td></td></t<>	8 01	1,60 .1	108	•	•		
#DI BDL .030 <t .050="" .0<="" bdl="" td="" =""><td>SEP</td><td>. BO.</td><td>901</td><td>BOL</td><td>108</td><td></td><td>•</td><td>. 8</td><td>1080</td></t>	SEP	. BO.	901	BOL	108		•	. 8	1080
## ## ## ## ## ## ## ## ## ## ## ## ##	DCT	108	108	.030 <t< td=""><td>801</td><td></td><td>•</td><td>3</td><td>33.</td></t<>	8 01		•	3	33.
BOL BOL BOL BOL BOL 11.600 11.484 10.788 9.280 8.816 9.744 9.280 8.816 9.744 9.280 8.816 9.744 9.280 8.816 9.744 9.280 16.240 23.200 22.040 25.520 14.000 11.000 17.000 11.000 12.000 11.000 7.800 7.400 14.000 11.000 11.000 11.000 11.000	20	108	108	.050 <t< td=""><td>B01</td><td>•</td><td>•</td><td>100 E</td><td>108</td></t<>	B 01	•	•	100 E	108
11.600 11.000 12.000 11	DEC	BOL	108	108	109	•	•	3	108
11.600 11.484 10.788 16.240 23.200 22.040 25.520 25.520 24.340 23.200 14.000 11.000 12.000 11.000 12.000 11.000 12.000 11.000 12.000 11							1 1 1 1 1 1 1 1 1 1 1		
11,600 11,484 10,788 9,280 8,816 9,744 9,280 16,240 23,200 16,240 25,520 22,040 25,520 24,360 23,200 17,000 11,000 12,000 11,000 12,000 11,000 12,000 11,000 1	ALUMINUM (•			DET'N LIMIT =	GUIDELINE *			
16.240 8.816 9.744 16.240 16.240 23.200 22.040 25.520 24.360 23.200 17.000 17.000 17.000 14.000 11.000 12.000 12.000 11.000 7.800 7.400 14.000 11.000	;			11,600	11.484	10.788	11.484	•	
16.240 16.240 23.200 22.040 25.520 22.040 25.520 24.360 23.200 17.000 17.000 17.000 11.000 12.000 12.000 11.000 7.800 7.400 14.000 11.000 8.300 9.200 11.000 11.000 11.000	NYC	•	•	0.280	8.816	77.6	9.3%	•	•
22.040 25.520 24.360 23.200 14.000 11.000 12.000 11.000 11.000 12.000 12.000 12.000 7.800 7.400 14.000 11.000 8.300 9.200 11.000	FEB	•	•	16.240	16.240	23.200	16.240	•	
14.000 11.000 12.000 12.000 11.000 12.000 12.000 12.000 12.000 12.000 14.000 8.300 9.200 11.000	A D	•	•	22.040	25.520		•	•	
14.000 11.000 11.000 7.800 8.300 11.000 12.000 14.000 11.000	AFK	•	•	24.360	23.200		•	33.640	35.960
14.000 11.000 12.000 12.000 12.000 12.000 12.000 14.000 14.000 14.000 14.000	MAY	•	•				•	15.000	20.000
14.000 11.000 12.000 12.000 12.000 12.000 12.000 12.000 14.000 14.000 14.000 11.000	NOC		•	. 600	47 000	•	•	20.000	19.000
14,000 11,000 12,000 11,000 12,000 12,000 7,800 7,400 14,000 8,300 9,200 11,000	JUL		•	17.000	000.1	•		20 000	11,000
7.800 7.400 12.000 12.000 7.800 7.400 14.000 11.000	AUG	14.000	11.000	12.000	11.000	•	•	200.03	
7.800 7.400 14.000 8.300 9.200 11.000	SFP	11.000	12.000	12.000	12.000	•	•	• 000	. 005 £
8 100 9 200 11,000	150	7.800	7.400	14.000	11.000		•	000.11	000 01
2011	200	8 300	9.200	11.000	11.000			000.11	000.01

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM MORTH BAY WTP 1989

		\$	ICK IKCAIMCMI FLAMI		0151	DISTRIBUTION SYSTEM		
SITE								
TYPE	RAU	TREATED	SITE 1		SITE 2		SITE 3	
	1 1 1 1 1		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	8.600	9.300	2.300	3.900			9.700	12.000
ARSENIC (^			DET'N LIMIT =	GUIDELINE =			
JAN	•	•	1> 0%1.	7> 092.	1> 050.	.520 <1	•	•
FEB	•	٠	.800 <t< td=""><td>T> 050.</td><td>T> 089.</td><td>.800 <1</td><td></td><td>•</td></t<>	T> 050.	T> 089.	.800 <1		•
HAR	•	•	.680 <t< td=""><td>1.100</td><td>.710 <t< td=""><td>.790 <₁</td><td>•</td><td>•</td></t<></td></t<>	1.100	.710 <t< td=""><td>.790 <₁</td><td>•</td><td>•</td></t<>	.790 <₁	•	•
APR	•	•	T> 077.	. 79 0 ₹ 1	•		•	•
HAY	•	•	.680 ×T	.840 <t< td=""><td>•</td><td>•</td><td>.930 <t< td=""><td>T> 058.</td></t<></td></t<>	•	•	.930 <t< td=""><td>T> 058.</td></t<>	T> 058.
NON		•	•	•	•	•	T> 094.	T> 010.
JUL		•	.080 ×T	.500 <1	•	•	.230 <7	1> 098.
AUG	.370 <1	T> 098.	.790 <1	1> 0%.	•	•	1> 078.	1> 030
SEP	T> 044.	.580 <t< td=""><td>.500 <t< td=""><td>.540 <t< td=""><td></td><td>•</td><td>•</td><td>•</td></t<></td></t<></td></t<>	.500 <t< td=""><td>.540 <t< td=""><td></td><td>•</td><td>•</td><td>•</td></t<></td></t<>	.540 <t< td=""><td></td><td>•</td><td>•</td><td>•</td></t<>		•	•	•
001	BOL	.270 <1	T> 067.	.500 <t< td=""><td>•</td><td>•</td><td>.550 <t< td=""><td>.310 <t< td=""></t<></td></t<></td></t<>	•	•	.550 <t< td=""><td>.310 <t< td=""></t<></td></t<>	.310 <t< td=""></t<>
MOV	.150 <t< td=""><td>.510 <t< td=""><td>T> 077.</td><td>1> 067.</td><td>•</td><td>•</td><td>.530 <t< td=""><td>. 450 <t< td=""></t<></td></t<></td></t<></td></t<>	.510 <t< td=""><td>T> 077.</td><td>1> 067.</td><td>•</td><td>•</td><td>.530 <t< td=""><td>. 450 <t< td=""></t<></td></t<></td></t<>	T> 077.	1> 067.	•	•	.530 <t< td=""><td>. 450 <t< td=""></t<></td></t<>	. 450 <t< td=""></t<>
DEC	. 140 <t< td=""><td>.320 <t< td=""><td>.250 <⊺</td><td>.310 <t< td=""><td>•</td><td>•</td><td>.430 <t< td=""><td>.370 <1</td></t<></td></t<></td></t<></td></t<>	.320 <t< td=""><td>.250 <⊺</td><td>.310 <t< td=""><td>•</td><td>•</td><td>.430 <t< td=""><td>.370 <1</td></t<></td></t<></td></t<>	.250 <⊺	.310 <t< td=""><td>•</td><td>•</td><td>.430 <t< td=""><td>.370 <1</td></t<></td></t<>	•	•	.430 <t< td=""><td>.370 <1</td></t<>	.370 <1
BARTUM (^			DET'N LIMIT =	GUIDELINE =			
JAN	•	•	18.000	16.000	17.000	16.000	•	•
FEB		•	18.000	16.000	18.000	17.000	•	•
MAR	•	•	17.000	17.000	18,000	18.000		•
APR	•	•	20.000	18.000	•	•	•	•
MAY	•		15.000	16.000	•	•	17.000	17.000
NOP	•		•	•	•	•	16.000	14.000
JUL		•	17.000	17.000	•	•	17.000	17.000
AUG	15.000	15.000	16.000	15.000	•	•	14.000	14.000
020	000	7.	000	000				

TABLE 5

WATER TREATMENT PLANT

SITE					Carre		1 3113	
1495	KAN DF	INCALED	-		3116 2		0 3110	
	į		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
		0 0 0 0 0 0 0 0						
0CT	16.000	16.000	14.000	14.000	•	•	16.000	14.000
₩ 0 ∧	16.000	15.000	15.000	14.000	•	•	15.000	14.000
DEC	17.000	17.000	14.000	14.000	•	٠	16.000	17.000
BORON (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • • • • • • • • • • • • • • • • • •	DET'N LIMIT =	GUIDELINE =			
241	,	,	14.000 <t< td=""><td>8.000 <t< td=""><td>1> 007.9</td><td>20.000 <1</td><td>•</td><td>•</td></t<></td></t<>	8.000 <t< td=""><td>1> 007.9</td><td>20.000 <1</td><td>•</td><td>•</td></t<>	1> 007.9	20.000 <1	•	•
8	•	•	17.000 <t< td=""><td>16.000 <t< td=""><td>11.000 <t< td=""><td>14.000 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<></td></t<>	16.000 <t< td=""><td>11.000 <t< td=""><td>14.000 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	11.000 <t< td=""><td>14.000 <t< td=""><td>•</td><td>•</td></t<></td></t<>	14.000 <t< td=""><td>•</td><td>•</td></t<>	•	•
KAR	•	•	14.000 <t< td=""><td>9.100 <t< td=""><td>6.600 <t< td=""><td>7.000 <t< td=""><td></td><td>•</td></t<></td></t<></td></t<></td></t<>	9.100 <t< td=""><td>6.600 <t< td=""><td>7.000 <t< td=""><td></td><td>•</td></t<></td></t<></td></t<>	6.600 <t< td=""><td>7.000 <t< td=""><td></td><td>•</td></t<></td></t<>	7.000 <t< td=""><td></td><td>•</td></t<>		•
APR	•	•	14.000 <1	11.000 <1	•	•	٠	•
¥	. •	•	29.000	7.100 <t< td=""><td>•</td><td>•</td><td>7.200 <1</td><td>6.300 <t< td=""></t<></td></t<>	•	•	7.200 <1	6.300 <t< td=""></t<>
307	•	•	•	•	•	•	9.100 <t< td=""><td>6.700 <1</td></t<>	6.700 <1
1	•	•	31.000	11.000 <1	•	•	15.000 <t< td=""><td>11.000 <t< td=""></t<></td></t<>	11.000 <t< td=""></t<>
AUG	15.000 <t< td=""><td>13.000 <t< td=""><td>21.000</td><td>15.000 <t< td=""><td>•</td><td></td><td>11.000 <1</td><td>11.000 <7</td></t<></td></t<></td></t<>	13.000 <t< td=""><td>21.000</td><td>15.000 <t< td=""><td>•</td><td></td><td>11.000 <1</td><td>11.000 <7</td></t<></td></t<>	21.000	15.000 <t< td=""><td>•</td><td></td><td>11.000 <1</td><td>11.000 <7</td></t<>	•		11.000 <1	11.000 <7
SEP	10.000 <t< td=""><td>11.000 <t< td=""><td>12.000 <t< td=""><td>9.600 <t< td=""><td></td><td></td><td>•</td><td></td></t<></td></t<></td></t<></td></t<>	11.000 <t< td=""><td>12.000 <t< td=""><td>9.600 <t< td=""><td></td><td></td><td>•</td><td></td></t<></td></t<></td></t<>	12.000 <t< td=""><td>9.600 <t< td=""><td></td><td></td><td>•</td><td></td></t<></td></t<>	9.600 <t< td=""><td></td><td></td><td>•</td><td></td></t<>			•	
720	8.800 <t< td=""><td>9.000 <t< td=""><td>11.000 <t< td=""><td>9.000 <t< td=""><td>•</td><td>•</td><td>8.500 <t< td=""><td>8.900 <⊤</td></t<></td></t<></td></t<></td></t<></td></t<>	9.000 <t< td=""><td>11.000 <t< td=""><td>9.000 <t< td=""><td>•</td><td>•</td><td>8.500 <t< td=""><td>8.900 <⊤</td></t<></td></t<></td></t<></td></t<>	11.000 <t< td=""><td>9.000 <t< td=""><td>•</td><td>•</td><td>8.500 <t< td=""><td>8.900 <⊤</td></t<></td></t<></td></t<>	9.000 <t< td=""><td>•</td><td>•</td><td>8.500 <t< td=""><td>8.900 <⊤</td></t<></td></t<>	•	•	8.500 <t< td=""><td>8.900 <⊤</td></t<>	8.900 <⊤
MOV.	9.100 <t< td=""><td>7.600 <t< td=""><td>7.700 <t< td=""><td>7.500 <t< td=""><td>•</td><td>•</td><td>9.000 <t< td=""><td>7.000 <⊺</td></t<></td></t<></td></t<></td></t<></td></t<>	7.600 <t< td=""><td>7.700 <t< td=""><td>7.500 <t< td=""><td>•</td><td>•</td><td>9.000 <t< td=""><td>7.000 <⊺</td></t<></td></t<></td></t<></td></t<>	7.700 <t< td=""><td>7.500 <t< td=""><td>•</td><td>•</td><td>9.000 <t< td=""><td>7.000 <⊺</td></t<></td></t<></td></t<>	7.500 <t< td=""><td>•</td><td>•</td><td>9.000 <t< td=""><td>7.000 <⊺</td></t<></td></t<>	•	•	9.000 <t< td=""><td>7.000 <⊺</td></t<>	7.000 <⊺
DEC	11.000 <t< td=""><td>8.600 <t< td=""><td>8.000 <t< td=""><td>6.900 <t< td=""><td>•</td><td>٠</td><td>7.300 <t< td=""><td>10.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	8.600 <t< td=""><td>8.000 <t< td=""><td>6.900 <t< td=""><td>•</td><td>٠</td><td>7.300 <t< td=""><td>10.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	8.000 <t< td=""><td>6.900 <t< td=""><td>•</td><td>٠</td><td>7.300 <t< td=""><td>10.000 <t< td=""></t<></td></t<></td></t<></td></t<>	6.900 <t< td=""><td>•</td><td>٠</td><td>7.300 <t< td=""><td>10.000 <t< td=""></t<></td></t<></td></t<>	•	٠	7.300 <t< td=""><td>10.000 <t< td=""></t<></td></t<>	10.000 <t< td=""></t<>
BERYLLIUM (()		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OET'N LIMIT =	GUIDELINE =			
JAN	•	•	80 F	80F	801	108	•	
£	•	. •	.050 <t< td=""><td>108</td><td>108</td><td>1> 070.</td><td>•</td><td>•</td></t<>	108	108	1> 070.	•	•
MAR	•	•	108	1> 041.	108	. 150 <t< td=""><td>•</td><td></td></t<>	•	
APR	•	٠	B01	.210 <t< td=""><td>•</td><td></td><td>•</td><td></td></t<>	•		•	
HAY		•	B 01	BOL	•	•	B01	
NO.	•	•	•		•	•	T> 050.	
JUL			801	BOL	•	•	108	108

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY WTP 1989

PITCH OF LED	

DISTRIBUTION SYSTEM
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>	RAN	TREATED	SITE 1		SITE 2		SITE 3	
<u>.</u>			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
f p t t t t	2 8 8 8 8 8 8 8 8 8 8		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 E 8 B B B B B B B B B B B B B B B B B B)	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AUG	108	.080 <t< td=""><td>T> 050.</td><td>BOL</td><td>•</td><td>•</td><td>T> 050.</td><td>BOL</td></t<>	T> 050.	BOL	•	•	T> 050.	BOL
SEP	.020 <t< td=""><td>.030 <t< td=""><td>.020 <t< td=""><td>BOL</td><td>•</td><td></td><td></td><td>•</td></t<></td></t<></td></t<>	.030 <t< td=""><td>.020 <t< td=""><td>BOL</td><td>•</td><td></td><td></td><td>•</td></t<></td></t<>	.020 <t< td=""><td>BOL</td><td>•</td><td></td><td></td><td>•</td></t<>	BOL	•			•
000	BOL	108	100	BOL	•		BOL	BOL
NOV	B0L	108	BOL	BOL	•		BOL	BOL
DEC	108	B01	BOL	108	•	•	.080 <⊺	108
CADHIUM (~			DET'N LIMIT =	CUIDELINE =		6 9 2 5 3 9 5 5 5 4 5 5 6 5 7 5 8 6 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	r 1 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
JAN		•	1> 070.	80 F	1> 070.	BOL	•	•
FEB		•	108	BOL	.330 <t< td=""><td>BOL</td><td>•</td><td>•</td></t<>	BOL	•	•
MAR	•	•	BOL	108	.300 <t< td=""><td>BOL</td><td>•</td><td>•</td></t<>	BOL	•	•
APR	•		.260 <1	108	•		•	•
HAY	•	•	T> 011.	BOL		•	.300 <t< td=""><td>.250 <t< td=""></t<></td></t<>	.250 <t< td=""></t<>
NOP			•			•	.230 <t< td=""><td>BOL</td></t<>	BOL
חר			.350 <t< td=""><td>108</td><td>•</td><td>•</td><td>110 cT</td><td>090</td></t<>	108	•	•	110 cT	090
AUG	BOL	108	0.49.	B 01	•	•	108	108
SEP	108	1> 090.	.300 <t< td=""><td>BOL</td><td>•</td><td>•</td><td></td><td></td></t<>	BOL	•	•		
0CT	108	BOL	T> 080.	108		•	BOL	0.00
MOV	BOL	108	T> 041.	108	•	•	T> 070.	BOL
DEC	. 180 <t< td=""><td>108</td><td>1> 070.</td><td>108</td><td>•</td><td>•</td><td>BOL</td><td>108</td></t<>	108	1> 070.	108	•	•	BOL	108
COBALT (^			DET'N LIMIT =	CUIDELINE =			
JAN			1> 0%0.	1> 001.	.550 <1	120 <1		٠
FEB	•	•	. 150 <t< td=""><td>.130 <t< td=""><td>.300 <t< td=""><td>1> 001.</td><td>•</td><td>•</td></t<></td></t<></td></t<>	.130 <t< td=""><td>.300 <t< td=""><td>1> 001.</td><td>•</td><td>•</td></t<></td></t<>	.300 <t< td=""><td>1> 001.</td><td>•</td><td>•</td></t<>	1> 001.	•	•
MAR	•	•	1. ort.	1> 0¢1.	1> 074.	1> 091.		
APR	•	•	1> 097.	150 AT.		•		•
MAY			T> 045	.250 <t< td=""><td>•</td><td></td><td>.330 <t< td=""><td>1> 062</td></t<></td></t<>	•		.330 <t< td=""><td>1> 062</td></t<>	1> 062

TABLE 5

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SITE								
2021	KAV	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
8 8 8 9 9 8 1 1 1 5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1			
NO.	•	,	•	•	•		.210 <t< td=""><td>.210 <t< td=""></t<></td></t<>	.210 <t< td=""></t<>
3	•	•	.290 <⊺	.230 <t< td=""><td></td><td>•</td><td>.300 <1</td><td>.280 <t< td=""></t<></td></t<>		•	.300 <1	.280 <t< td=""></t<>
AUG	.100 <t< td=""><td>1> 0%0</td><td>.110 <t< td=""><td>.130 <t< td=""><td>•</td><td>•</td><td>T> 011.</td><td>.090 ح</td></t<></td></t<></td></t<>	1> 0%0	.110 <t< td=""><td>.130 <t< td=""><td>•</td><td>•</td><td>T> 011.</td><td>.090 ح</td></t<></td></t<>	.130 <t< td=""><td>•</td><td>•</td><td>T> 011.</td><td>.090 ح</td></t<>	•	•	T> 011.	.090 ح
SEP	.070 <1	1> 001.	T> 080.	1> 070.	•	•	•	•
100	.≥90 <ſ	.200 <7	.220 <t< td=""><td>.100 <⊤</td><td>•</td><td>•</td><td>1> 0%0 .</td><td>.080 <t< td=""></t<></td></t<>	.100 <⊤	•	•	1> 0%0 .	.080 <t< td=""></t<>
MQV	.430 <t< td=""><td>130 <1</td><td>T> 004.</td><td>1,90 <1</td><td>•</td><td>•</td><td>.080 <t< td=""><td>.100 <t< td=""></t<></td></t<></td></t<>	130 <1	T> 004.	1,90 <1	•	•	.080 <t< td=""><td>.100 <t< td=""></t<></td></t<>	.100 <t< td=""></t<>
DEC	T> 0 9 0.	1.300	.290 <1	.250 <t< td=""><td>•</td><td>•</td><td>1, 0,11.</td><td>T> 011.</td></t<>	•	•	1, 0,11.	T> 011.
CHROMIUM ((.			DET'N LIMIT =	GUIDELINE =	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
XVI	•	•	1> 007.	108	108	.820 <1	٠	
65		•	.350 <t< td=""><td>1.200</td><td>T> 077.</td><td>2.300</td><td>•</td><td>•</td></t<>	1.200	T> 077.	2.300	•	•
WAR.		•	108	B 0	BOL	BOL		٠
APR	•	•	.540 <t< td=""><td>1> 099.</td><td></td><td></td><td>•</td><td>٠</td></t<>	1> 099.			•	٠
¥¥	•	•	2.200	T> 084.			.580 <t< td=""><td>. 740 <t< td=""></t<></td></t<>	. 740 <t< td=""></t<>
NO.	•	•	•	•		•	.980 <₹	.240 <₹
JUL	•	•	1.400	1.100	•	•	1.100	1.200
AUG	T> 0%9.	.950 <t< td=""><td>1.200</td><td>1.200</td><td>•</td><td>•</td><td>.600 ≺T</td><td>T> 040.</td></t<>	1.200	1.200	•	•	.600 ≺T	T> 040.
SEP	.660 <ī	1.000 <t< td=""><td>1.200</td><td>T> 097.</td><td>•</td><td></td><td>•</td><td>•</td></t<>	1.200	T> 097.	•		•	•
100	1> 055.	.290 <⊺	.720 <1	.130	•	•	.530 <t< td=""><td>. or .</td></t<>	. or .
MOV	BOL	108	BOL	108	•		108	B 01
050	BOL	B01	108	BOL	•	•	TOM	901
COPPER (^		8 8 8 8 8 8 9 9 9	DET'N LIMIT =	GUIDELINE #			
•			200 000	36.000	180.000	110.000	•	
E (•	220.000	37 000	200 000	80.000	•	
10		•	000.077	34 000	000.004	71.000	•	
MAR	•	•	00.00	2000	****	-	•	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY UTP 1989

WATER TREATMENT PLANT

	TYPE	TREATED			SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
. 8 6 8	•		580,000	71 000				
K	•	•	130.000	39.000	• •	• (300.000	28,000
¥07	•	•		•	•	•	260,000	52.000
JU.	•	•	310.000	49.000	•	•	900.009	44.000
AUG	2.100	2.200	300.000	74.000	•	•	38.000	38.000
SEP	2.000	2.200	480.000	76.000	•	•	•	•
100	2.000	2.200	120.000	29.000	•		65.000	23.000
₩	1.900	2.100	240.000	32.000	•	•	250.000	20.000
0EC	2.200 <t< td=""><td>2.300 <1</td><td>39.000</td><td>27.000</td><td>٠</td><td>•</td><td>100.000</td><td>44.000</td></t<>	2.300 <1	39.000	27.000	٠	•	100.000	44.000
IRON (£5 (DET'N LIMIT =	GUIDELINE =		1	
100	•	•	98.000	150.000	81.000	84.000	•	•
FEB	•	•	87.000	110.000	29.000	55.000	•	•
MAR	•	•	140.000	150.000	110.000	97.000	•	•
APR	•	•	120.000	160.000	•		•	•
MAY	•	•	150.000	130.000	•	•	70.000	66.000
NO.	•	٠	•	٠	•	•	30.000 <1	41.000 <1
JUL	•	•	55.000	75.000	•	•	45.000 <t< td=""><td>39.000 <1</td></t<>	39.000 <1
AUG	21.000 <t< td=""><td>25.000 <1</td><td>48.000 <t< td=""><td>65.000</td><td>•</td><td>•</td><td>19.000 <1</td><td>16.000 <1</td></t<></td></t<>	25.000 <1	48.000 <t< td=""><td>65.000</td><td>•</td><td>•</td><td>19.000 <1</td><td>16.000 <1</td></t<>	65.000	•	•	19.000 <1	16.000 <1
SEP	24.000 <t< td=""><td>37.000 <t< td=""><td>78.000</td><td>81.000</td><td>•</td><td>•</td><td>٠</td><td>•</td></t<></td></t<>	37.000 <t< td=""><td>78.000</td><td>81.000</td><td>•</td><td>•</td><td>٠</td><td>•</td></t<>	78.000	81.000	•	•	٠	•
130	38.000 <1	38.000 <t< td=""><td>100.000</td><td>110.000</td><td>•</td><td>•</td><td>29.000 <1</td><td>108</td></t<>	100.000	110.000	•	•	29.000 <1	108
MOV	29.000 <1	42.000 <t< td=""><td>64.000</td><td>91.000</td><td>•</td><td></td><td>21.000 <1</td><td>25.000 <1</td></t<>	64.000	91.000	•		21.000 <1	25.000 <1
DEC	44.000 <1	39.000 <1	108	108	•	•	57.000 <t< td=""><td></td></t<>	
MERCURY (•			DET'N LIMIT =	GUIDELINE =		0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 0 1 1 1 1 1 1 1 1
NAL		,	٠,	.030	•	120	•	

TABLE 5

WATER TREATMENT PLANT

TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
				1, 0,70		120	•	•
FEB			•	98.	•	93.	•	
MAR	•	•	•	0 . .	•	001.	•	•
APR		•	•	.140	•	•		
MAY	•	•	•	080.	•	•	•	021.
10x	•	•	•		٠	•	•	180
זהר	•		•	097.	•	٠	•	108
AUG	80 1	80 L	•	077	•	•		108
SEP	BOL	108	•	.200	•	•	•	•
	.030 <t< td=""><td>T> 040.</td><td>•</td><td>0&Z.</td><td></td><td>•</td><td>•</td><td>108</td></t<>	T> 040.	•	0&Z.		•	•	108
	.040 <t< td=""><td>1> 050.</td><td>•</td><td>.550</td><td>•</td><td>٠</td><td>•</td><td>.020 <₹</td></t<>	1> 050.	•	.550	•	٠	•	.020 <₹
	080	.050 <t< td=""><td>•</td><td>ICS</td><td>•</td><td></td><td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>.020 <t< td=""></t<></td></t<>	•	ICS	•		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.020 <t< td=""></t<>
MANGANESE (^			DET'N LIMIT =	GUIDELINE =			
74			6.900	004.6	7.800	8.000	٠	•
	•	,	009.6	9.500	8.200	7.600	•	•
200	•	•	6.400	007.6	11.000	9.100	٠	•
406	•	, ,	11.000	10.000		•	•	•
MAY		•	11.000	12.000	•	•	11.000	11.000
2		•	•	٠	•	•	8.400	11.000
		•	12,000	15.000	•	•	21.000	16.000
JUE A	. 604.4	7.400	11.000	11.000	•	•	2.600	2.600
	2 000	000	15.000	15.000	•	•	•	•
	700.7	009.7	8.500	7.000	•	•	7.800	× 017.
	3 800	000	7,000	7,700	•	•	4.100	3.500
	3.800	7.000	108	108		•	3.500	5.100

ABLE 5

DRINKING WATER SURVEILLANCE PROGRAM WORTH BAY WTP 1989

STITE RAW TREATED STITE 1 STITE 2 STAMDING FREE FLOM STAMDING FREE FLOM									
TTPE STAMOING FREE FLOM STAMOING FR	SITI								
100 ct BDL BDL 110 ct BDL BDL 110 ct 110	JYDE		TREATED	SITE 1		SITE 2		SITE 3	
100 < T BOL BOL 110 < T 120 < T 110 < T 120 < T 110 < T 11				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
	γV		•	100 .	08	Ē	ទួ		
	FEB	•	•	T> 051.	1> 080.	.120 <t< td=""><td>.120 <1</td><td>•</td><td>• •</td></t<>	.120 <1	•	• •
	HAR	•	•	.210 <t< td=""><td>T> 081.</td><td>T> 011.</td><td>130 <7</td><td>•</td><td>•</td></t<>	T> 081.	T> 011.	130 <7	•	•
1,000 ct 1,000 ct	APR	•	•	.230 <7	. 110 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
	¥	•	•	108	1> 070.	•		170 41.	100 <1
	N 57		•	•		•	•	1> 070.	150 <1
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. 290 <t .="" 100="" 120="" 140="" <t="" <t<="" td=""><td>SEP</td><td>1> 040.</td><td>.060 ₹</td><td>.070 <1</td><td>T> 040.</td><td>•</td><td>•</td><td>•</td><td></td></t>	SEP	1> 040.	.060 ₹	.070 <1	T> 040.	•	•	•	
. 170 <t 050="" 090="" 110="" 150.000<="" <t="" td=""><td>00.1</td><td>.≥9%.</td><td>.140 <t< td=""><td>.120 <1</td><td>.100 <t< td=""><td>•</td><td>•</td><td>.040 <1</td><td>.620</td></t<></td></t<></td></t>	00.1	.≥9%.	.140 <t< td=""><td>.120 <1</td><td>.100 <t< td=""><td>•</td><td>•</td><td>.040 <1</td><td>.620</td></t<></td></t<>	.120 <1	.100 <t< td=""><td>•</td><td>•</td><td>.040 <1</td><td>.620</td></t<>	•	•	.040 <1	.620
140 <t .110="" .290="" <t="" bdl="" td="" ="" <=""><td>106</td><td>1,00</td><td>.090 ₹</td><td>.050 <t< td=""><td>T> 070.</td><td>•</td><td>•</td><td>.030 <t< td=""><td>108</td></t<></td></t<></td></t>	1 06	1,00	.090 ₹	.050 <t< td=""><td>T> 070.</td><td>•</td><td>•</td><td>.030 <t< td=""><td>108</td></t<></td></t<>	T> 070.	•	•	.030 <t< td=""><td>108</td></t<>	108
) DET'N LIMIT = GUIDELINE = 20.000 1.700 <t .240="" .550="" .650="" .740="" .780="" .880="" 1="" 1.300="" 140.000="" 150.000="" 20.000="" 40.000="" 5.000="" 5.100="" 5.700="" 5.<="" 58.000="" 68.000="" <t="" td=""><td>0EC</td><td>.160</td><td>Bol</td><td>.290 ∢ī</td><td>.110 <t< td=""><td>•</td><td>•</td><td>100</td><td>108</td></t<></td></t>	0EC	.1 6 0	Bol	.290 ∢ī	.110 <t< td=""><td>•</td><td>•</td><td>100</td><td>108</td></t<>	•	•	100	108
	NICKEL (~	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• 8 9 9 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	DET*N LIMIT =	GUIDELINE =			
	JAN	•	•	500.000	1.700 <1	150.000	1> 0%6.	•	•
. 5.700 .880 <t .="" .1300="" .240="" .740="" .780="" .880="" .<="" 1.100="" 1.300="" 13.000="" 140.000="" 15.000="" 150.000="" 550="" 570="" 66.00="" 66.000="" 680="" 710="" 770="" 9.800="" <t="" td=""><td>FEB</td><td>•</td><td>•</td><td>20.000</td><td>T> 050.</td><td>58.000</td><td>7 > 07.</td><td>•</td><td>•</td></t>	FEB	•	•	20.000	T> 050.	58.000	7 > 07.	•	•
. 140.000 1.300 <t< td=""><td>KA</td><td>•</td><td>٠</td><td>5.700</td><td>T> 088.</td><td>99.000</td><td>1.000 <1</td><td>•</td><td>•</td></t<>	KA	•	٠	5.700	T> 088.	99.000	1.000 <1	•	•
. 9.800 1.100	APR	•	٠	140.000	1.300 <t< td=""><td>•</td><td></td><td>•</td><td>•</td></t<>	•		•	•
. 15.000 .600 <t .710="" 13.000<br="" <t="">.680 <t .660="" 8.100<br="" <t="">.590 <t .780="" 5.100<br="" <t="">.520 <t .570="" 150.000<br="" <t="">.760 <t .320="" .790="" <t="" <t<="" td=""><td>HAY.</td><td>•</td><td>•</td><td>9.800</td><td>1.100 <t< td=""><td></td><td>•</td><td>23.000</td><td>1.200 <t< td=""></t<></td></t<></td></t></t></t></t></t>	HAY.	•	•	9.800	1.100 <t< td=""><td></td><td>•</td><td>23.000</td><td>1.200 <t< td=""></t<></td></t<>		•	23.000	1.200 <t< td=""></t<>
. 600 < 7 . 710 < 7 13.000	NO.		•	•	•	•	•	2.200	1.800 <₹
.680 <t .710="" 13.000<br="" <t="">.680 <t .660="" 8.100<br="" <t="">.590 <t .780="" 5.100<br="" <t="">.520 <t .570="" 150.000<br="" <t="">.760 <t .790="" <t="" <t<="" td=""><td>JUL</td><td>•</td><td>•</td><td>15,000</td><td>.240 <t< td=""><td>•</td><td>•</td><td>11.000</td><td>1,90€.</td></t<></td></t></t></t></t></t>	JUL	•	•	15,000	.240 <t< td=""><td>•</td><td>•</td><td>11.000</td><td>1,90€.</td></t<>	•	•	11.000	1,90€.
. 590 < 7	AUG	T> 009.	.710 <t< td=""><td>13.000</td><td>. 780 <t< td=""><td>•</td><td>•</td><td>780 <t< td=""><td>.580 <1</td></t<></td></t<></td></t<>	13.000	. 780 <t< td=""><td>•</td><td>•</td><td>780 <t< td=""><td>.580 <1</td></t<></td></t<>	•	•	780 <t< td=""><td>.580 <1</td></t<>	.580 <1
. 590 < 7 . 780 < 7 . 100	SEP	T> 089.	T> 099.	8.100	T> 006.	•	•	•	•
. 520 <7	OCT	.590 <t< td=""><td>.780 <t< td=""><td>5.100</td><td>T> 059.</td><td>•</td><td>•</td><td>.630 <t< td=""><td>140 <7</td></t<></td></t<></td></t<>	.780 <t< td=""><td>5.100</td><td>T> 059.</td><td>•</td><td>•</td><td>.630 <t< td=""><td>140 <7</td></t<></td></t<>	5.100	T> 059.	•	•	.630 <t< td=""><td>140 <7</td></t<>	140 <7
.760 <t .320="" .790="" <t="" <t<="" td=""><td>NOV</td><td>.520 <t< td=""><td>.570 <ī</td><td>150.000</td><td>1> 07.7</td><td>•</td><td></td><td>1.300 <t< td=""><td>.560 <₹</td></t<></td></t<></td></t>	NOV	.520 <t< td=""><td>.570 <ī</td><td>150.000</td><td>1> 07.7</td><td>•</td><td></td><td>1.300 <t< td=""><td>.560 <₹</td></t<></td></t<>	.570 <ī	150.000	1> 07.7	•		1.300 <t< td=""><td>.560 <₹</td></t<>	.560 <₹
	DEC	.760 ∢1	.790 <1	.320 <₹	BOL	•		2.400	.750 <1

TABLE 5

SILE								
TYPE	X	IKEAIEU	- 3		SITE 2		SITE 3	•
; ; ;	9 9 9 9 9 9		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
LEAD (^		0	DET'N LIMIT *	GUIDELINE =	v b b c c c c c c c c c c c c c c c c c	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
JAN	•	•	73.000 RRV	3.200	2.700	2.000	•	•
FE8	•	•	35.000	2.900	8.300	1.100	•	•
MAR	•	•	24.000	4.300	18.000	1.500	٠	•
APR	•	•	91.000	9.800	•		٠	•
MAY .	• ,	•	15.000	3.200	•	•	15.000	1.400
NOP	•		•	•	•	•	12.000	1.900
JUL	•	•	37.000	3.900	•		000.6	1.800
AUG	.320	.280	20.000	4.100	•	•	1.400	1.400
SEP	BOL	BOL	72.000 RRV	7.100	•	•	٠	•
001	.520	.310	24.000	3.100	•	•	1.900	1.600
¥04	.100 <t< td=""><td>.100 <⊤</td><td>41.000</td><td>7.000</td><td>•</td><td>•</td><td>9.900</td><td>.750</td></t<>	.100 <⊤	41.000	7.000	•	•	9.900	.750
DEC	.200 <t< td=""><td>.350 <t< td=""><td>28.000</td><td>2.800</td><td>•</td><td>•</td><td>10.000</td><td>1.600</td></t<></td></t<>	.350 <t< td=""><td>28.000</td><td>2.800</td><td>•</td><td>•</td><td>10.000</td><td>1.600</td></t<>	28.000	2.800	•	•	10.000	1.600
ANTIMONY ((1 1 1 1 1 1 1 0 0 0 0 0 1 1 1 1 1 1 1 1		DET'N LIMIT =	GUIDELINE =	, , , , , , , , , , , , , , , , , , ,	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
JAN	•	•	.540	.450	.410	.410	•	•
FEB	•	•	573.	9.	27.	067.	•	•
KAR		•	069.	.650	.630	.590	•	•
APR	٠	•	067	027.	•	•	•	•
HAY	•	•	.910	0 6.	•	•	.840	%.
NO.	•	•	•	•	•	•	.740	067
Jul		•	069.	.720	•	•	.750	.880
AUG	.550	059.	099.	.620	•		079.	.510
SEP	007	.390	.380	.420	•	•	•	•
0CT	1.200	.620	067.	025.	•	•	.430	1.200
MOV	.820	.560	.480	.710	•	•	097.	.410

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM WORTH BAY UTP 1989

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Type	SITE								
	7071		TREATED	SITE 1		SITE 2		SITE 3	
) DET'N LINIT = GJIDELINE * 1,400 <t 1,000="" 1,100="" 1<="" <t="" th=""><th></th><th></th><th></th><th>STANDING</th><th>FREE FLOW</th><th>STANDING</th><th>FREE FLOW</th><th>STANDING</th><th>FREE FLOW</th></t>				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
1,400 <	SELENIUM (•			DET'N LIMIT =		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	. 0 2 3 5 5 6 5 7 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	
2.400 <t 1.300="" 1.400="" 1.500="" 1.5<="" 2.400="" <t="" td=""><td>NAL</td><td>•</td><td>•</td><td>1.400 <t< td=""><td>1.000 <1</td><td>1.300 <1</td><td>1.100 <t< td=""><td></td><td></td></t<></td></t<></td></t>	NAL	•	•	1.400 <t< td=""><td>1.000 <1</td><td>1.300 <1</td><td>1.100 <t< td=""><td></td><td></td></t<></td></t<>	1.000 <1	1.300 <1	1.100 <t< td=""><td></td><td></td></t<>		
1.400 <1 1.900 <1 2.000 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.500 <1 1.5	FEB		•	2.400 <1	3,400 <t< td=""><td>2.000 <1</td><td>1.300 <t< td=""><td>•</td><td>٠</td></t<></td></t<>	2.000 <1	1.300 <t< td=""><td>•</td><td>٠</td></t<>	•	٠
1,500 < T 1,50	MAR	•	•	3.000 <1	2.000 <₹	.420 <t< td=""><td>1.800 <1</td><td>٠</td><td></td></t<>	1.800 <1	٠	
1,900 < 1,900 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1,500 < 1	APR	•	٠	.270 <1	T> 004.	•	•	•	
1,400 <t bdl="" bdl<="" td=""><td>MAY</td><td>•</td><td>•</td><td>1.900 <1</td><td>T> 0%.</td><td>•</td><td>٠</td><td>2.400 <t< td=""><td>3.800 <t< td=""></t<></td></t<></td></t>	MAY	•	•	1.900 <1	T> 0%.	•	٠	2.400 <t< td=""><td>3.800 <t< td=""></t<></td></t<>	3.800 <t< td=""></t<>
1,400 < The color of the col	NOF		٠	•	•	٠	•	108	108
1,400 < ED E	Jul	•		108	1.300 <t< td=""><td>•</td><td>•</td><td>108</td><td>108</td></t<>	•	•	108	108
BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BOL BO	AUG	1.400 <t< td=""><td>108</td><td>188</td><td>108</td><td>•</td><td>•</td><td>108</td><td>108</td></t<>	108	188	108	•	•	108	108
BDL	SEP	108	108	108	108	•	•	•	
BDL	OC 1	108	108	108	108	٠	•	108	108
#DL #DL 1.900 <t #dl="" 1.100="" 1.900="" <t="" td="" ="" <=""><td>MON</td><td>108</td><td>108</td><td>108</td><td>108</td><td>٠</td><td>•</td><td>JOB BOT</td><td>108</td></t>	MON	108	108	108	108	٠	•	JOB BOT	108
) DET'N LINIT = GUIDELINE = GU	DEC	108	108	1.900 <t< td=""><td>1.100 <t< td=""><td>•</td><td>•</td><td>TOM</td><td>TOS.</td></t<></td></t<>	1.100 <t< td=""><td>•</td><td>•</td><td>TOM</td><td>TOS.</td></t<>	•	•	TOM	TOS.
4.6.000 46.000	STRONTIUM ((DET'N LIMIT =	GUIDELINE =			
51,000 50,000 52,000 50,000 . 52,000 50,000 52,000 53,000 . 7,000 47,000 52,000 . . . 44,000 45,000 47,000 47,000 45,000 45,000 46,000 45,000 45,000 46,000 45,000 45,000 .<	NAL	•	•	48.000	46.000	49.000	46.000		•
. 52,000 50,000 52,000 53,000 . . <td>FEB</td> <td>•</td> <td>•</td> <td>51.000</td> <td>20.000</td> <td>52.000</td> <td>50.000</td> <td></td> <td>•</td>	FEB	•	•	51.000	20.000	52.000	50.000		•
53.000 51.000 . <td< td=""><td>MAR</td><td></td><td>٠</td><td>52.000</td><td>20.000</td><td>52.000</td><td>53.000</td><td>•</td><td></td></td<>	MAR		٠	52.000	20.000	52.000	53.000	•	
. 47,000 52,000 . . 55,000 .	APR		٠	53.000	51.000	•	•		
. .	MAY		•	47.000	52.000	•	•	55.000	53.000
. 50,000 47,000 . 49,000 44,000 45,000 45,000 43,000 . 44,000 47,000 48,000 48,000 47,000 . 47,000 46,000 43,000 45,000 42,000 . 45,000 45,000 46,000 84,000 75,000 . 42,000	157	•		•	٠		•	45.000	43.000
44,000 45,000 45,000 45,000	JUL	•	٠	20.000	7.000	•	•	000.67	49.000
47.000 48.000 52.000 49.000 .	AUG	000.77	45.000	45.000	43.000		•	000.44	44.000
47.000 45.000 48.000 47.000 . 47.000 46.000 43.000 45.000 42.000 . 45.000 45.000 46.000 84.000 75.000 . 42.000	SEP	47.000	48.000	52.000	000.67		•	•	•
46,000 43,000 45,000 45,000 46,000 84,000 75,000 75,000 75,000 75,000	001	47.000	45.000	48.000	7.000		٠	000.74	24.000
45,000 46,000 84,000 75.000	NOV	76.000	43.000	45.000	45.000	•	•	45.000	000.44
	DEC	45.000	46.000	84.000	75.000	•	•	42.000	20.000

TABLE 5

WATER TREATMENT PLANT

SITE								
:	RAU	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JITANIUM (•	. e 8 9 9 9 8 1 8 8 9 9 8 8	8 8 8 9 8 8 8 9 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9	DET'N LIMIT =	GUIDELINE =			7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NAL	•	•	12.000	10.000	1.500 <t< td=""><td>2.000 <1</td><td>•</td><td>•</td></t<>	2.000 <1	•	•
FEB		•	9.600	10.000	1.500 <t< td=""><td>1.500 <1</td><td>•</td><td>•</td></t<>	1.500 <1	•	•
K		•	5.100	8.300	3.500	3.300		٠
APR			4.300	2.400	٠		•	•
WAY YA	•	•	14.000	4.600	•	•	3.200	3.700
15 N		•	•	•	٠	•	7.700	4.800
306	•		7.600	4.300	•	•	5.500	5.500
	8.000	8.700	2.900		•	•	4.000	3.900
	8.300	12.000	1.600 <1		•		•	
	16.000	14.000	2.300		•		3.300	
	007.6	12.000	1.500 <t< td=""><td></td><td>•</td><td>•</td><td>2.500</td><td>2.300</td></t<>		•	•	2.500	2.300
DEC	15.000	12.000	1.600 <t< td=""><td>1.500 <t< td=""><td>•</td><td>•</td><td>3.200 <t< td=""><td></td></t<></td></t<></td></t<>	1.500 <t< td=""><td>•</td><td>•</td><td>3.200 <t< td=""><td></td></t<></td></t<>	•	•	3.200 <t< td=""><td></td></t<>	
THALLIUM (•			DET'N LIMIT =	GUIDELINE "			
JAN	•	•	.030 <1		108	108	•	•
FEB	•		.030 <t< td=""><td></td><td>108</td><td>108</td><td>•</td><td>•</td></t<>		108	108	•	•
MAR	•	•	108	80 L	108	108	•	•
APR		•	.120 <t< td=""><td></td><td></td><td>•</td><td>•</td><td>•</td></t<>			•	•	•
MAY	•	•	.070 ×		٠	•	.060 <1	× 020.
NO.	•	•	•		•	•	.020 <	> 020 ·
JUL		•	T> 040.	108	•	•	108	108
AUG	BOL	BOL	108		•	•	108	108
SEP	.190 <1	097	.310	.260	٠	•	٠	•
DCT	.020	T> 050.	.030 <1		•	•	BOL	108
NOV	108	108	108		•		T> 040.	BOL
וני	100	2	S		•	•	IUB	I OB

TABLE 5

DISTRIBUTION SYSTEM

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WATER TREATMENT PLANT

TVDE	RAU	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
URANIUM (^		0 1 1 0 0 0 0 0 0 0 0 0	DET'N LIMIT =	QUIDELINE .	0 0 0 0 0 0 0 0 0 0 0 0		
JAN	•	•	.040 <t< td=""><td>BOL</td><td>80F</td><td>108</td><td></td><td>•</td></t<>	BOL	80F	108		•
FEB		•	T> 080.		.050 <t< td=""><td>1> 030</td><td>• •</td><td></td></t<>	1> 030	• •	
MAR	•	•	108		B 01	.030 <	•	•
APR	•	•	BOL	108			•	•
HAY		•	7> 090.	108	•	•	1> 0%0.	× 070
NOF		•	•		•		130 <1	. 100 <t< td=""></t<>
JUL	•	•	.150 <⊺		•	•	.050 <t< td=""><td>108</td></t<>	108
AUG	30 1	BOL	T> 030 <t< td=""><td></td><td>•</td><td>•</td><td>.030 <1</td><td>BOL</td></t<>		•	•	.030 <1	BOL
SEP	B0L	BOL	BOL		•	•		
120	.050 <t< td=""><td>108</td><td>.030 <t< td=""><td>108</td><td>•</td><td>•</td><td>801</td><td>× 050.</td></t<></td></t<>	108	.030 <t< td=""><td>108</td><td>•</td><td>•</td><td>801</td><td>× 050.</td></t<>	108	•	•	8 01	× 050.
MOV	.030 <t< td=""><td>108</td><td>108</td><td>108</td><td></td><td>•</td><td>108</td><td>108</td></t<>	108	108	108		•	108	108
DEC	B 01	Bol	.100 <t< td=""><td>1> 070.</td><td>•</td><td>•</td><td>BOL</td><td>108</td></t<>	1> 070.	•	•	BOL	108
VANAD IUM (^			DET'N LIMIT =	GUIDELINE =	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1
AAN	•	•	108	108	B01	BOL	•	
FEB .	•	•	108	108	B01	BOL	•	•
MAR		•	108	108	108	BOL	•	٠
APR			. 120 <t< td=""><td></td><td>•</td><td>•</td><td></td><td>•</td></t<>		•	•		•
MAY		•	.220 <1	1> 001.	•	•	.210 <t< td=""><td>. 190</td></t<>	. 190
JUN	•	•	٠	•	•		.420 <1	1> 087.
		•	. 170 <t< td=""><td></td><td>•</td><td>•</td><td>.210 <t< td=""><td>1> 041.</td></t<></td></t<>		•	•	.210 <t< td=""><td>1> 041.</td></t<>	1> 041.
	.070 <t< td=""><td>.090</td><td>1> 0%0.</td><td></td><td>•</td><td>•</td><td>.100 <1</td><td>1> 080.</td></t<>	.090	1> 0%0.		•	•	.100 <1	1> 080.
	.120 <t< td=""><td>. 100 <t< td=""><td>T> 090.</td><td></td><td>•</td><td>•</td><td>•</td><td>•</td></t<></td></t<>	. 100 <t< td=""><td>T> 090.</td><td></td><td>•</td><td>•</td><td>•</td><td>•</td></t<>	T> 090.		•	•	•	•
	.050 <t< td=""><td>.020 <1</td><td>.040 ⋅1</td><td>T> 050.</td><td>•</td><td></td><td>.040 <t< td=""><td>.030 <7</td></t<></td></t<>	.020 <1	.040 ⋅1	T> 050.	•		.040 <t< td=""><td>.030 <7</td></t<>	.030 <7
MOV	. 180 <t< td=""><td>1> 001.</td><td>1> 070.</td><td>.120 <t< td=""><td>•</td><td></td><td>. 100 <t< td=""><td>110 <t< td=""></t<></td></t<></td></t<></td></t<>	1> 001.	1> 070.	.120 <t< td=""><td>•</td><td></td><td>. 100 <t< td=""><td>110 <t< td=""></t<></td></t<></td></t<>	•		. 100 <t< td=""><td>110 <t< td=""></t<></td></t<>	110 <t< td=""></t<>
	. 110 <t< td=""><td>.110 <t< td=""><td>108</td><td>G</td><td>1</td><td>•</td><td>Ica</td><td>, 070</td></t<></td></t<>	.110 <t< td=""><td>108</td><td>G</td><td>1</td><td>•</td><td>Ica</td><td>, 070</td></t<>	108	G	1	•	Ica	, 070

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM MORTH BAY UTP 1989

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TREATMENT	
UATER TREA	

T	TREATED	SITE 1		SITE 2		SITE 3	
		STANDING	FREE FLOW	STANDING	FREE FLOW	STANOING	FREE FLOW
	1 5 6 6 1 1 1	8 6 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DET'N LIMIT =	GUIDELINE =			
		290.000	9.500	29.000	009.6	•	•
	•	47.000	9.500	30.000	9.500	•	•
	•	21.000	9.600	39.000	10.000	•	•
		140.000	13.000		•	٠	
		33.000	11.000	•	•	24.000	11.000
	•	•		•	٠	18.000	9.90
	•	61.000	15.000	•	•	29.000	12.000
	12.000	24.000	11.000	•	٠	6.900	6.800
	12.000	51,000	14.000	•	•	•	
	8.800	37.000	7.600	•	•	9.700	2.50
	8.100	200,000	7.700		•	12.000	9.600
	9.200	25.000	2.400	•	•	11.000	10.00

	٠		STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
ALPHA BHC (ng/L	PESTICIDES & PCB	& PC8	DET'N LIMIT =		GUIDELINE =		0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
34				2 000 <1		1,000		
G 44	•	•	•	2.000 c	•	2,000 5	•	•
- L		•	•	200.7	•		•	•
400	•	•	•	100	•	100	•	•
HAY.		• •	• •	1.000 <	•	• •	•	. 108
N 1		• ,	• ,		•	• ,		108
, i			•	1.000 <t< td=""><td>• •</td><td>•</td><td>•</td><td>108</td></t<>	• •	•	•	108
	.000 <t< td=""><td>1.000 <t< td=""><td></td><td>1,000 <t< td=""><td>•</td><td></td><td>•</td><td>BDL</td></t<></td></t<></td></t<>	1.000 <t< td=""><td></td><td>1,000 <t< td=""><td>•</td><td></td><td>•</td><td>BDL</td></t<></td></t<>		1,000 <t< td=""><td>•</td><td></td><td>•</td><td>BDL</td></t<>	•		•	BDL
	.000 <t< td=""><td>BDL</td><td></td><td>2.000 <1</td><td>•</td><td>٠</td><td>•</td><td></td></t<>	BDL		2.000 <1	•	٠	•	
	BOL	108	•	108	•	•		108
	000 <t< td=""><td>BOL</td><td>•</td><td>2.000 <t< td=""><td>•</td><td></td><td>٠</td><td>2.000 <1</td></t<></td></t<>	BOL	•	2.000 <t< td=""><td>•</td><td></td><td>٠</td><td>2.000 <1</td></t<>	•		٠	2.000 <1
	ILA	108	•	1,000 <t< td=""><td>٠</td><td>•</td><td>•</td><td>1.000 <t< td=""></t<></td></t<>	٠	•	•	1.000 <t< td=""></t<>
ATRĄZINE (ng/L	^		DET'N LIMIT =		GUIDELINE =			
NAL	•	٠	٠	108	•	108	•	
658	•	•		BDL	•	108	•	•
MAR			•	320.000 <t< td=""><td>•</td><td>108</td><td>•</td><td>•</td></t<>	•	108	•	•
APR	•	•		108	•			•
MAY		•	•	108			•	10 8
£,	•	•	•	•	•	•	•	10 8
JO.		•	•	80r	•	•	•	108
AUG	BOL	108	•	•	•		•	•
SEP	BDL	108	٠	SII		•	•	
100	B D L	108	•	٠	•		•	•
NOV	BDL	108	•	•	•	٠	•	•
DEC	BDL	108	•	•	•	•	•	•
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW

	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	STANDING FREE FLOW STANDING FREE FLOW STANDING FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
, , , , , , , , , , , , , , , , , , ,	PHENOLICS	•						
PHENOLICS (UG/L	NG/F)		DET'N L	DET'N LIMIT = 0.2	GUIDELINE = 2.00 (A3)	2.00 (A3)		
AUG	1.000	1.400	•	•	•	•	•	
SEP	7.000	2.000	•	•	•		•	
001	1.600	1.000	•	•	•	٠	•	
NOV	.800 <1	1.000 <1	•		•	•	•	
DEC	1> 007	1> 007.	•	•	•	•	•	

TABLE 5

STITE STANDING STITE STANDING STAN					DRINKING WATER	SURVEILLANCE PRO	DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY UTP 1989	р 1989	
FRAM TREATED SITE SITE			3	ATER TREATMENT P	LANT	\$10	TRIBUTION SYSTEM		
VOLATILES STANDING FREE FLOM	SITE		TREATED	SITE 1		SITE 2		SITE 3	
VOLATILES DET'N LINIT = GJIDELINE =) DET'N LINIT = GJIDELINE = BDL BDL	1 4 PE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DET'N LINIT = GJIDELINE		VOLATIL	ES	8 8 8 9 9 9 9 9 9	1	2) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 1 1 1 1 1 2 3 5 5 6 7 7 8 7 8 8 7 8 8 7 8 7 8 7 8 7 8 7 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BOL BOL	ENZENE (^			DET'N LIMIT =				
BOL BOL	NAL	•	•	•	108	•	108	٠	
BOL BOL	FEB			•	108		B01	•	٠
BDL BDL	KAR	•		•	BOL	•	BOL	٠	•
BOL BOL	APR		٠	•	B 01	•	•	•	
BDL GOOD BDL	MAY		•	•	108 80 L	•		•	BOL
BD1 .600 .801	NOF		•	•	٠				108
BDL S600 BDL BDL	JUL			•	108	•	•	٠	ଛ
BDL BDL	AUG	BOL	009	•	BOL	•		•	108
#01 .150 <f< td=""><td>SEP</td><td>BOL</td><td>B0</td><td>•</td><td>108</td><td>•</td><td>•</td><td>•</td><td></td></f<>	SEP	BOL	B 0	•	108	•	•	•	
BOL BOL BOL	0CT	108	. 150 <t< td=""><td>•</td><td>108</td><td>•</td><td>•</td><td>•</td><td>108</td></t<>	•	108	•	•	•	1 08
BOL BOL BOL	MOV	BOL	BOL	٠	108	•	•	•	108
) DET'N LIMIT = GJIDELINE = 100 <t< td=""><td>DEC</td><td>108</td><td>108</td><td>•</td><td>BOL</td><td>•</td><td></td><td>•</td><td>108</td></t<>	DEC	108	108	•	BOL	•		•	108
100 <1	CUENE (^	1	p d 1 f p d d d d d d d d d d d d d	DET'N LIMIT =		1		
150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 150 <1 1	NAL		•	•	T> 001.	•	108		
100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100 < 1 100	FEB	•	•	•	BOL	•	. 150 <1	•	
150 < T 150	KR		•	•	T> 050.	•	1> 001.	•	
150 <t 150="" <t="" td="" ="" <=""><td>APR</td><td></td><td>•</td><td>•</td><td>108</td><td>•</td><td></td><td>•</td><td></td></t>	APR		•	•	108	•		•	
150 <t 150="" <t="" td="" ="" <=""><td>MAY</td><td></td><td>٠</td><td>•</td><td>150 <t< td=""><td>•</td><td>•</td><td>٠</td><td>. 150 <t< td=""></t<></td></t<></td></t>	MAY		٠	•	150 <t< td=""><td>•</td><td>•</td><td>٠</td><td>. 150 <t< td=""></t<></td></t<>	•	•	٠	. 150 <t< td=""></t<>
	NOT		٠	•	•	•	•	•	8 0F
801 . 150 <↑	זחר		•	•	8 0	•	•	•	B 01
	AUG	108	150 <₹	•	108	•	•	•	8 0
	SEP	BOL	BOL	•	BOL	•	•	•	
	100	30	BOL	•	108	•		•	1> 050.
	NON	BDL	108	•	BOL	٠			108

TABLE 5

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1	ĺ	3	L	
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	١	4		
	4			١
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TYPE		IKEAIEU	SITE 1		SIIE 2		SIIE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
0EC	8 01	1> 001.		108		•		BOL
ETHYLBENZENE (^		!	DET'N LIMIT =	GUIDELINE *	0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 1 1 1 1		
NAL		•	•	T> 050.	•	BOL	•	•
FEB	• •	•	•	BOL	•	T> 050.	•	•
HAR	•		•	108	•	1> 001.	•	•
APR	•		•	108	•	•	•	
MAY	•	•	•	. 050 × T		•	•	> UCU.
NOC			•	٠	•	•	•	108
JUL	•	٠	•	108	•	•	•	
AUG	108	108	•	8 01	•	•	•	103
SEP	BOL	108	•	8 01	•	•	•	•
001	BOL	108	•	108	•	•	•	1 2 3
MOV	BOL	.050 <t< td=""><td>•</td><td>108</td><td></td><td>•</td><td>•</td><td>108</td></t<>	•	108		•	•	108
DEC	BOL	108	•	B 01	٠			108
M-XYLENE (^	**************************************		DET'N LIMIT =	GUIDELINE =			
NA		•	•	108		BOL	•	•
	• •	•	•	108	•	BOL	•	•
E T		•	•	108	•	BOL		•
APR	•	•	•	108	•		•	• 6
MAY	•		•	1> 001.	•	•	•	, 001.
NOC	•	•	٠		•		•	100
JUL			•	BOL	•		•	108
AUG	G	g	•	BOL		•	•	3
	3							

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM WORTH BAY WIP 1989

WATER TREATMENT PLANT

•									
SILE	NA N	TREATED	SITE 1		SITE 2		SITE 3		
-			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 1 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
100	108	BOL	•	B 0	•	•	•	108	
MOV	BOL	108	•	BOL		•	•	BOL	
DEC	108	108	•	108	٠	•	•	108	
O-XYLENE (^			DET'N LIMIT =	GUIDELINE =	1	• • • • • • • • • • • • • • • • • • •	1 3 3 3 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
JAN		•	•	BOL	•	B0L		•	
FEB	•	٠	•	108	•	BOL	•	•	
MAR	•	•	•	108	•	BOL	•	•	
APR	•	٠	•	108	•	•	•		
HAY	•	٠	•	T> 050.	•	•	•	108	
MOF	•		•	•	•	٠	•	108	
JUL			٠	108		•	•	108	
AUG	108	108	•	108	•	•	•	108	
SEP	JOE .	30	•	108	•	•	•		
120	BOL	108	•	108	•	•	•	108	
MON	BOL	108	•	108	•	•	•	BOL	
DEC	108	BOL	•	108	•		•	108	
STYRENE (^			DET'N LIMIT #	GUIDELINE =			, a a a a a a a a a a a a a a a a a a a	
JAN		•	•	.200 <1	•	.200 <	•	•	
FEB		•	•	108		.350 <t< td=""><td>•</td><td></td><td></td></t<>	•		
HAR.		•	•	.250 <₹	٠	son 059.	•		
APR	•	•	•	T> 050.	٠		•		
KAY	•	•	•	. 250 <1		•	•	.450 <1	
NO.			•	•		•	•	T> 001.	
701	•	•	•	.150 <t< td=""><td>•</td><td>•</td><td>•</td><td>.150 <t< td=""><td></td></t<></td></t<>	•	•	•	.150 <t< td=""><td></td></t<>	

TABLE 5

WATER TREATMENT PLANT

SITE	RAU	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG	. 150 <1	1> 051.		80L	•	•	•	100 .
SEP	8 0	108	•	. 100 ct		•	•	
000	BDL	BOL	•	BOL		•	•	. 100 ·
MON.	108	.250 <t< td=""><td>•</td><td>. 100 <t< td=""><td>•</td><td>•</td><td>•</td><td>.050 <t< td=""></t<></td></t<></td></t<>	•	. 100 <t< td=""><td>•</td><td>•</td><td>•</td><td>.050 <t< td=""></t<></td></t<>	•	•	•	.050 <t< td=""></t<>
DEC	108	108	٠	.100 ≺⊺		٠	•	.050 <t< td=""></t<>
CHLOROFORM (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DET'N LIMIT =	GUIDELINE *	1	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1
JAN			•	52.200		42.100	•	•
FEB		•	•	43.200		43.900	•	•
MAR		•	•	47.800		76.900	•	•
APR	•		•	006.67	•	•	•	•
K	•	•	٠	24.600	•	•	•	67.900
MOR		•	•		•	•	•	273.000
JUL.			•	38.800	•	•	•	\$.700
AUG	BOL	43.300	•	43.000		•	•	47.500
SEP	BOL	20.000	•	39.700		•	•	•
001	BOL	48,200	•	76.000	•	•	•	67.700
NOV	108	45.600	•	006.77	•	•	•	76.900
DEC	108	46.200	•	41.500	•	•	•	52.100
CARBON TETRACHLORIDE	CHLORIDE (•		DET'N LIMIT =	GUIDELINE =			
JAN			٠	BDL		BOL	•	•
FEB		•	•	108		BOL	•	•
MAR			•	BOL		BDL	•	•
APR	•		•	B0L	٠		•	•
> 1								

TABLE 5

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DRINKING

WATER TREATMENT PLANT

TYPE	₽	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
NOT	·		•	•	•	•		1,000 <1
JUL			٠	108	•	•	•	108
AUG	8 01	B01	•	108	•	•	•	102
SEP	108	108	•	108	•	•	•	
OCT	B 01	108	•	108	•	•	•	108
NOV	108	108	•	108	•	•	•	108
DEC	108	108	•	108		•	•	109
D I CHLOROBROMOMETHANE	ETHANE (7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DET'N LIMIT =	GUIDELINE			
JAN		•	•	5.050	•	009.4	•	•
FEB	•		•	7.400	•	7.600	•	•
MAR		٠	•	5.250	•	5.000	•	•
APR	•	٠	•	7.600	•	•	•	•
MAY		•	•	7.900	•	•	٠	5.550
NOP	•	•	•	•	•	•	•	10.650
JUL		•	•	3.750	•	•	•	2.400
AUG	108	3.900	•	3.750	•	•	•	4.100
SEP	8 01	4.300	•	3.500	•	•	•	
0CT	8 01	4.350	•	4.450	•	•	•	5.650
NO.	B01	4.500	•	3.850	•	•	•	4.450
DEC	109	4.600	•	3.800	•	•	•	4.700
CHLOROD I BROHOME THANE	TETHANE (•		DET'N LIMIT =	GUIDELINE *	1		
JAN		•	•	.300 <	•	.200 <t< td=""><td>•</td><td>•</td></t<>	•	•
FEB		•	•	108	•	.300 <t< td=""><td>•</td><td>•</td></t<>	•	•
647				T> 009	•	1> 009		

TABLE S

WATER TREATMENT PLANT

SITE							
R TYPE	RAW TREATED	SITE 1		SITE 2		SITE 3	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
					1	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	. 8 8 5 6 1 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
APR	•	•	.200 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
MAY	•	•	.300 <t< td=""><td>•</td><td>•</td><td>٠</td><td>.300 <1</td></t<>	•	•	٠	.300 <1
NON		•		•	•	•	T> 009.
JUL		•	.300 <t< td=""><td>•</td><td>•</td><td>•</td><td>T> 004.</td></t<>	•	•	•	T> 004.
	.> 00£. 108		108	•	•	•	108
			.300 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
0CT B			.300 <t< td=""><td>•</td><td>•</td><td>•</td><td>T> 004.</td></t<>	•	•	•	T> 004.
	BDL 300 <1		.200 <t< td=""><td>•</td><td>•</td><td>•</td><td>.200 <1</td></t<>	•	•	•	.200 <1
	T> 00E, 10t		.200 <t< td=""><td>•</td><td>•</td><td>•</td><td>.300 <t< td=""></t<></td></t<>	•	•	•	.300 <t< td=""></t<>
T-CHLOROETHYLENE	^ •		DET'N LIMIT *	GUIDELINE =	8	6 1 2 3 3 4 3 5 5 6 6 6 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
JAN		•	108	•	108	•	•
FEB		•	108	•	108	•	•
TAR		•	80r	•	108	•	
APR		•	BOL	•		•	
44	•	•	.050 <t< td=""><td></td><td>•</td><td>•</td><td>.050 <1</td></t<>		•	•	.050 <1
NOI		•	•	•	•	•	150 <₹
JUL		•	108	•	•	•	108
	BDL .100 <t< td=""><td></td><td>108</td><td>•</td><td>•</td><td>•</td><td>108</td></t<>		108	•	•	•	108
	108 POL	•	BDL		•	•	•
0CT B	108 108	•	108	•		•	108
	108 108	•	108	•		•	901
		٠	BOL	•	•	•	108
TOTL TRIHALOMETHANES (NES (1	DET'N LIMIT =	GUIDELINE *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 3 5 6 6 1 1 1 1 1 1 1	
JAN		•	57.550	•	76.900	•	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NORTH BAY UTP 1989

	FREE FLOW	• • • • • • • • • • • • • • • • • • •	•	•	•	73.750	284.250	20.500	51.600	•	73.730	54.550	57.050
SITE 3	STANDING	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	٠	•	•	•	•	•	•	•	•	•	•
	FREE FLOW		48.800	52.500		•	•	•	•	•		•	•
SITE 2	STANDING		•	•	•	•	•	•	٠	•	•	•	
	FREE FLOW		47.600	53.650	24.700	29.800	•	42.850	46.750	43.500	53.750	056.87	45.550
SITE 1	STANDING		•	•	•	•		•	•	•	•	•	•
TREATED		! ! ! ! ! !	•	•	•		•	•	47.500	24.600	52.850	20.400	51.000
RAN			•	•		•	•	•	801	801	B 01	108	80 1
SITE	TYPE		89	*	404	× **		5 =	¥ne	SEP	100	AOM.	DEC

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE AWALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

		ETECTION		
SCAN/PARAMETER	<u>UNIT</u>	LIMIT	GUIDE	LINE
BACTERIOLOGICAL				
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0	, ,
STANDARD PLATE COUNT MEMBRANE	CT/ML	0	500/M	L(Al)
FILTRATION TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100m	L(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A	
CHLOROAROMATICS				
HEXACHLOROBUTADIENE	NG/L	1.000		(D4)
1,2,3-TRICHLOROBENZENE	NG/L		10000	(I)
1,2,3,4-TETRACHLOROBENZENE	NG/L		10000	(I)
1,2,3,5-TETRACHLOROBENZENE	NG/L		10000	(I)
1,2,4-TRICHLOROBENZENE	NG/L		10000	(I) (D4)
1,2,4,5-TETRACHLOROBENZENE	NG/L		38000 10000	(D4)
1,3,5-TRICHLOROBENZENE	NG/L	1.0	10.	(C1)
HEXACHLOROBENZENE	NG/L NG/L		1900.	(D4)
HEXACHLOROETHANE	NG/L NG/L	1.000		(21)
OCTACHLOROSTYRENE	NG/L NG/L		74000	(D4)
PENTACHLOROBENZENE 2,3,6-TRICHLOROTOLUENE	NG/L	5.000		(/
2,4,5-TRICHLOROTOLUENE	NG/L	5.000		
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	•	
Z, U, K-TRIGHEONOTOBOLNZ	, _		·	
CHLOROPHENOLS				
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A	
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,4,5-TRICHLOROPHENOL	NG/L	_	600000	(D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000.	(B4)
PENTACHLOROPHENOL	NG/L	50.	30000.	(B4)
CHEMISTRY (FLD)				
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD PH	DMSNLESS	•	6.5-8	
FIELD TEMPERATURE	°c	N/A	<15 °	
FIELD TURBIDITY	FTU	N/A	1.0) (A1)
CHEMISTRY (LAB)				
ALKALINITY	MG/L	.200		00 (A4)
CALCIUM	MG/L	.100		• •
CYANIDE	MG/L	.001		20(A1)
CHLORIDE	MG/L	.200		(A3)
COLOUR	TCU	.5		0 (A3)
CONDUCTIVITY	UMHO/CM	1.		(F2)
FLUORIDE	MG/L	.01		4 (A1)
HARDNESS	MG/L	.50		00 (A4)
MAGNESIUM	MG/L	.05	30.	(F2)

DETECTION

	D	ETECTIO	N	
SCAN/PARAMETER	UNIT	LIMIT	GUIDE	LINE
NITRITE	MG/L	.00	1 1.0	(A1)
TOTAL NITRATES	MG/L	.02		(A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02		` '
PH	DMSNLESS	N/A	•	5/A41
		.00		J (M4)
PHOSPHORUS FIL REACT	MG/L		•	0.450
PHOSPHORUS TOTAL	MG/L	.00		0(F2)
TOTAL SOLIDS	MG/L	1.	500.	
TURBIDITY	FTU	.02	1.0	(A1)
METALS				
ALUMINUM	UG/L	.05	0 100.	(A4)
ANTIMONY	UG/L	.05	0 10.	(F3)
ARSENIC	UG/L	.05	0 50.	(A1)
BARIUM	UG/L	.02	0 1000.	(A1)
BORON	UG/L		0 5000.	(A1)
BERYLLIUM	UG/L	.01		O (H)
	UG/L	.05		(A1)
CADMIUM				
COBALT	UG/L		0 1000.	(H)
CHROMIUM	UG/L	.10		(A1)
COPPER	UG/L	.10		(A3)
IRON	UG/L	5.0	300.	(A3)
MERCURY	UG/L	.01		(A1)
MANGANESE	UG/L	.05	0 50.	(EA)
MOLYBDENUM	UG/L	.02	0 500.	(H)
NICKEL	UG/L	.10	0 50.	(F3)
LEAD	UG/L	.02	0 50.	(A1)
SELENIUM	UG/L	.20		(A1)
SILVER ·	UG/L	.02		(A1)
STRONTIUM	UG/L		0 2000.	(H)
THALLIUM	UG/L	.01		(D4)
	•	.10		(54)
TITANIUM	UG/L		•	(32)
URANIUM	UG/L	.02		(A2)
VANADIUM	UG/L	.02		(H)
ZINC	UG/L	.02	0 5000.	(A3)
PHENOLICS				
PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0	(A3)
PESTICIDES & PCB				
ALDRIN	NG/L	1.0	700.	(A1)
AMETRINE	NG/L	50.	300000.	(D3)
ATRAZINE	NG/L		60000.	
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	•	1.0		•
BETA HEXACHLOROCYCLOHEXANE (BHC)	•	1.0		
· · · · · · · · · · · · · · · · · · ·	•		4000.	
GAMMA HEXACHLOROCYCLOHEXANE (LINDANE)	-			
ALPHA CHLORDANE	NG/L		7000.	
GAMMA CHLORDANE	NG/L		7000.	
BLADEX	NG/L			
DIELDRIN	NG/L	2.0		
METHOXYCHLOR	NG/L	5.0	900000.	(B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000.	(D4)
ENDOSULFAN 2 (THIODAN II)	NG/L		74000.	
ENDRIN	NG/L	4.0		
ENDOSULFAN SULPHATE (THIODAN SULPHATE			N/A	,
HEPTACHLOR EPOXIDE	NG/L	1.0	· · · · · · · · · · · · · · · · · · ·	(A1)
	, -	_,,		· /

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	D	ETECTION		
SCAN/PARAMETER	UNIT	LIMIT	GUIDE	LINE
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O, P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	•	(A1)
	NG/L	5.0		
PPDDT	NG/L	50.	N/A	(/
ATRATONE	NG/L	500.		(D2)
ALACHLOR	NG/L	50.		
PROMETONE		50.	16000.	
PROPAZINE	NG/L		1000.	
PROMETRYNE	NG/L	50. 100.	1000.	, ,
SENCOR (METRIBUZIN)	NG/L			
SIMAZINE	NG/L	50.	10000.	(B3)
POLYAROMATIC HYDROCARBONS				
	15		/-	
PHENANTHRENE	NG/L	10.0	•	
ANTHRACENE	NG/L	1.0	•	
FLUORANTHENE	NG/L		42000.	(D4)
PYRENE	NG/L		N/A	
BENZO (A) ANTHRACENE	NG/L		N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A) ANTHRACENE	NG/L	5.0		
BENZO(E)PYRENE	NG/L	50.0	N/A	
BENZO(B) FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K) FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A)PYRENE	NG/L	5.0	10.	(B1)
BENZO(G, H, I) PERYLENE	NG/L	20.0	N/A	
DIBENZO(A, H) ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	N/A	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID	NG/L	50.	200000.	(B4)
(2,4,5-T)	•			
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	
2,4-D PROPIONIC ACID	NG/L	100.	N/A	, ,
DICAMBA	NG/L	100.	120000.	(B1)
PICLORAM	NG/L	100.	190000.	
SILVEX (2,4,5-TP)	NG/L	50.	10000.	
DIAZINON	NG/L	20.	20000.	
	NG/L	20.	N/A	(/
DICHLOROVOS	NG/L NG/L	20.	N/A	
DURSBAN	NG/L NG/L	20.	35000.	(G)
ETHION CUTTURE STETUTE	*	N/A		
GUTHION (AZINPHOSMETHYL)	NG/L	20.	190000.	
MALATHION	NG/L			(51)
MEVINPHOS	NG/L	20.	N/A 7000.	(A1)
METHYL PARATHION	NG/L	50.		(44)
METHYLTRITHION	NG/L	20.	N/A	(B1)
PARATHION	NG/L	20.	50000.	(51)

DETECTION

UNIT LIMIT GUIDELINE

PHORATE (THIMET)	NG/L	20.	2000.	(B3)
RELDAN	NG/L	20.	N/A	
RONNEL	NG/L	20.	N/A	
AMINOCARB	NG/L	N/A	N/A	
BENONYL	NG/L	N/A	N/A	
BUX (METALKAMATE)	NG/L	2000.	N/A	
CARBOFURAN	NG/L		90000.	(B1)
CICP (CHLORPROPHAM)	NG/L		50000.	(G)
DIALLATE	NG/L		30000.	(H)
EPTAM	NG/L	2000.	N/A	(/
IPC	NG/L	2000.	N/A	
PROPOXUR (BAYGON)	NG/L		90000.	(G)
SEVIN (CARBARYL)	NG/L		90000.	(B1)
SUTAN (BUTYLATE)	NG/L		45000.	(D3)
SUTAN (BUILLAIL)	NG/ L	2000. 2	43000.	(55)
VOLATILES				
BENZENE	UG/L	.050		(B1)
TOLUENE	UG/L	.050		•
ETHYLBENZENE	UG/L	.050	2.4	(B4)
PARA-XYLENE	UG/L	.100	300.	(B4)
META-XYLENE	UG/L	.100	300.	(B4)
ORTHO-XYLENE	UG/L	.050	300.	(B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0	(D1)
ETHLYENE DIBROMIDE	UG/L	.05	.09	5 G)
METHYLENE CHLORIDE	UG/L	.500	50.	(B1)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	70.	(D5)
1,1-DICHLOROETHANE	UG/L	.100	N/A	
CHLOROFORM	UG/L	.100	350.	(A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200.	(D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0	(D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0	(B1)
1,2-DICHLOROPROPANE	UG/L	.050	6.0	(D5)
TRICHLOROETHYLENE	UG/L	.100	50.	(B1)
DICHLOROBROMOMETHANE	UG/L	.050		(A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050		D(D4)
CHLORODIBROMOMETHANE	UG/L	.100		(A1+)
TETRACHLOROETHYLENE	UG/L	.050		(C2)
BROMOFORM	UG/L	.200		(A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050		7 (D4)
CHLOROBENZENE	UG/L	.100		(D5)
1,4-DICHLOROBENZENE	UG/L	.100		(B4)
1,3-DICHLOROBENZENE	UG/L	.100		(G)
1,2-DICHLOROBENZENE	UG/L	.050		(B4)
TRIFLUOROCHLOROTOLUENE	UG/L	.100		(,
TOTAL TRIHALOMETHANES	UG/L	.500	•	(A1)
STYRENE	UG/L	.05	140.	(D5)
	OG/L	.05	740.	(55)

SCAN/PARAMETER

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